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ABSTRACT

The International Standard Classification of Education (ISCED) was developed by the United Nations Educational, Scientific, and Cultural Organization in the 1960s and 1970s to be the recognized international standard for reporting and interpreting education program data. Creating a U.S. crosswalk to this system has been a goal of research conducted by the Office of Educational Research and Improvement that awaited the revision of the Classification of Instructional Programs (CIP) system. This publication contains a detailed discussion of the correspondence between U.S. education program databases and classification systems and the ISCED. It includes a crosswalk between ISCED and the 1990 CIP, and crosswalks between the ISCED and educational level classifications used in the Integrated Postsecondary Education Data System (IPEDS) and the Common Core of Data Survey (CCD), which collects data on primary and secondary education. The "Guide" also presents useful information on U.S. education program data. Technological and methodological considerations are discussed, and crosswalking data at various education levels are considered. An appendix of nearly 100 pages contains the master crosswalk of U.S. and ISCED codes. (SLD)

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A GUIDE
TO THE

INTERNATIONAL INTERPRETATION OF U.S. EDUCATION PROGRAM DATA

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CIP, IPEDS, CCD AND ISCED

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A GUIDE
TO THE

INTERNATIONAL
INTERPRETATION
OF
U.S. EDUCATION
PROGRAM
DATA

CIP, IPEDS, CCD AND ISCED

by

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"The purpose of the Center shall be to collect, analyze, and disseminate statistics and other data related to education in the United States and in other nations."—Section 406(b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e-1).

October 1993

Foreword

The International Standard Classification of Education, known by its acronym ISCED, was developed by the United Nations Educational, Scientific, and Cultural Organization during the late 1960s and 1970s. ISCED was implemented in 1976 and is the recognized international standard for reporting and interpreting education program data.

Creating a U.S. crosswalk to this system has been a goal of the National Center for Education Statistics and the Office of Research since the late 1970s, when the National Institute of Education (the predecessor agency to the Office of Educational Research and Improvement) began exploring the idea. The design and implementation of a workable crosswalk, however, awaited the advent of changes to the Classification of Instructional Programs (CIP) system. The 1990 revision of the CIP system laid the foundation for a workable international crosswalk. Adoption of the National Education Goals set global consciousness and international educational comparisons firmly in place as important components of American educational policy and mission at the national level.

We believe that this product will enhance the accessibility and utility of American educational data to the world community. Educators, policymakers, statisticians, researchers, and the interested public will benefit from both the crosswalk itself and from the discussion of the U.S. educational system and data that accompany it. While ISCED may undergo changes and modifications in the future, this *Guide* is an important contribution to international educational research and data exchanges and lays a solid foundation for future developments.

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Introduction¹

A Guide to the International Interpretation of U.S. Education Program Data: CIP, IPEDS, CCD and ISCED presents the standard format used by the National Center for Education Statistics (NCES) to report U.S. education program data to international organizations and serves as a guideline for interpreting such data.

This publication contains a detailed discussion of the correspondence between U.S. education program databases and classification systems and the *International Standard Classification of Education (ISCED)*. It includes a crosswalk between ISCED and the *1990 Classification of Instructional Programs (CIP)*, the official U.S. education program classification system; and crosswalks between ISCED and the educational level classifications used in the principal U.S. national education databases, the *Integrated Postsecondary Education Data System (IPEDS)* which collects postsecondary data and the *Common Core of Data Survey (CCD)* which collects data on primary and secondary education. The *Guide* also presents useful information on the nature of U.S. education program data in relation to ISCED and to international comparisons based upon it.

The Importance of International Data Comparability

Several persuasive arguments can be made for insuring good international and comparative data. Among them are:

- to facilitate accurate data exchanges under extant treaties, agreements, and arrangements, both bilateral and multilateral;
- to help achieve the National Education Goals objectives of better and more extensive international comparisons of educational practices and achievement;
- to meet the challenge of the increasing global mobility of students of all ages, which means more Americans and foreigners holding credentials from one another's education systems;
- to provide users of U.S. education data, both in America and abroad, with effective means of comparing U.S. and foreign education data; and
- to provide a framework under which U.S. educators, policymakers,

¹ The technical author of this guidebook and crosswalk is E. Stephen Hunt, a senior research analyst in the Higher Education and Adult Learning Division of the Office of Research, OERI. He is a co-author of the *Classification of Instructional Programs: 1990 Edition* (Washington: U.S. Government Printing Office, 1991).

organizations, and the public can make informed decisions on international educational issues.

In addition to these general points, the U.S. National Education Goals mandate an increased concern with international and comparative education developments in order to support the reform and improvement of education in the United States and the preparedness of all Americans for participation in the global economy.

Most international education data reporting and analysis is based on the *International Standard Classification of Education (ISCED)*. ISCED was developed by the United Nations Education, Scientific and Cultural Organization (UNESCO) and was implemented in 1976. Since 1976, the ISCED system has been adopted universally as the taxonomic format for reporting international education data and is used by international organizations as well as individual countries. The Organization for Economic Cooperation and Development (OECD), of which the United States is an active member, uses the ISCED system, as do most OECD member countries. So does the European Community (EC). Major non-governmental international organizations also employ ISCED, including the International Association of Universities (IAU) and the International Assessment of Educational Progress (IAEP).

The information presented in this *Guide* contributes to more effective international education research and data exchanges by making possible more accurate, reliable, and valid reporting of data on instructional program activity than has been possible in the past. The crosswalks presented in the *Guide* allow data analyses at each level of education as defined by both ISCED and the National Center for Education Statistics. Because this crosswalk is keyed to both the 6-digit codes used in the U.S. CIP classification system and to the education level codes used in the CCD and IPEDS national surveys, it can be used to translate any data based on them. This feature permits use of this *Guide* by researchers and data consumers who employ different, or adapted, versions of these federal data systems. While it is preferable to use the current NCES-approved versions of CCD, IPEDS, and CIP, this is not always possible, especially for historical data collected under older classification systems and using earlier versions of survey instruments. Basing the postsecondary crosswalks to ISCED on the smallest pertinent data elements (6-digit instructional program codes in CIP) helps to overcome the longitudinal continuity problem because current CIP 6-digit codes can be crosswalked to and from prior editions of CIP and older classification systems.

Feasibility of Crosswalking U.S. Data to ISCED

The U.S. educational system differs in detail from those of other countries. This is not unusual — national education systems nearly always exhibit characteristics of organization, philosophy, and governance that distinguish them from others and that make international comparisons difficult. Comparisons are possible, nonetheless, so long as what is to be compared can be operationally defined using similar terms, data can be collected using similar procedures and sources, and analyses of the results are bounded by the limits thus

set. Such analyses must always be made with care.

In all educational systems, at all levels, students enter and leave the system, are certified as having completed programs of study, and concentrate in specific subject fields. These educational processes, in all systems, are conducted through recognized institutions which are authorized to provide education. While individual national organization and patterns of education may differ widely, it is possible to report data on similar activities in mutually recognizable and useful ways. Comparability is possible, in part, because of general similarities in the way all national systems are organized and, in part, because of the existence of established international data reporting tools such as ISCED.

ISCED provides eight levels for reporting education program data. Countries whose educational systems include secondary programs divided into lower (junior high/middle/intermediate school) and upper (senior high) divisions; that place advanced occupationally specific programs neither in basic secondary school nor higher education; and that offer more than three distinct types of postsecondary programs often have difficulty deciding how to fit these realities into the ISCED framework. Significant country-to-country differences in what a particular education level signifies are also lost when these important nuances are collapsed into a more general ISCED level designation.

In addition to having fewer reporting levels than most countries have education levels or program completion points, ISCED also recognizes fewer educational program categories than many educational systems use. ISCED program descriptions are also quite broad and represent aggregations of specific program fields which educators and policymakers often treat separately. Furthermore, the arrangement of the ISCED program groupings does not always follow that used in the country supplying data under the ISCED system, thus necessitating a reorganization of data that may wind up bearing little resemblance to national practice.

Despite difficulties in adapting data from various national data systems to the ISCED format, the system has grown to be the most pervasive and important education program classification in the world and is used widely in research as well as in data exchanges. It is likely that ISCED will continue to be the basis of international comparisons for the foreseeable future. The importance of ISCED makes it desirable to develop and use a standard method of translating U.S. education program data into the ISCED format, and *vice versa*.

Historical Efforts at International Data Crosswalks

In 1978, the National Center for Education Statistics sponsored a feasibility study to develop

a crosswalk between the education program classification systems then in use and ISCED.² While this effort did produce a conceptual framework for a data crosswalk, it was not implemented. In 1980 the National Center for Education Statistics developed the CIP system to combine and replace the previous classification systems. This change rendered the concepts developed in 1978 obsolete.

In 1982, NCES revisited the question of a crosswalk to ISCED and prepared a concept paper based on the 1980 CIP and the data reporting conventions then being used.³ No further work on a CIP/ISCED crosswalk was done until the 1990 CIP was designed and implemented.

The 1990 CIP represents a significant modification and improvement of the CIP system: it is more logically arranged and easier to use than previous editions. These modifications were made—in part—with the possibility of a CIP/ISCED crosswalk in mind. Indeed, cumulative modifications to the CIP system over time, plus the profound differences between CIP and its predecessors (HEGIS and Handbook VI), combine to make data reporting under older versions of CIP and crosswalks from obsolete systems, unsatisfactory and unreliable. To insure conversion to the 1990 CIP, NCES has instituted an extensive program to train users and data providers and has provided a free conversion diskette to users who request it (the order form is in the 1990 CIP manual).

The Need to Crosswalk CIP, IPEDS, and CCD

U.S. education program data are collected via two different groups of surveys, IPEDS and CCD. IPEDS collects extensive postsecondary data on enrollments, program completions, and other questions, while CCD collects a variety of primary and secondary education data—including enrollments by grade level and high school program completions. IPEDS and CCD each consist of a group of survey instruments which target different issues. Both are also censuses of the universe of educational providers (in the case of IPEDS) or state oversight bodies (in the case of CCD) dealing with the aspects of education activity they cover. Education program data collected through IPEDS are simultaneously arranged by CIP program classification and by IPEDS education level. CCD is not linked to CIP.

² National Center for Higher Education Management Systems (NCHEMS), *Using ISCED for Reporting NCES Data to UNESCO: A Feasibility Study*. (Washington: National Center for Education Statistics, November 30, 1978). The CIP system did not exist in 1978. Education program data were then reported under two separate systems. Elementary, secondary, and vocational program data were reported using John F. Putnam and W. Dale Chismore, *Standard Terminology for Curriculum and Instruction in Local and State School Systems, State Educational Records and Reports Series: Handbook VI*, U.S. Department of Health, Education, and Welfare (Washington: U.S. Government Printing Office, 1970), commonly known as Handbook VI. Postsecondary program data were reported using Robert A. Huff and Marjorie O. Chandler, *A Taxonomy of Instructional Programs in Higher Education*, U.S. Department of Health, Education, and Welfare (Washington: U.S. Government Printing Office, 1970), variously known as the Huff-Chandler or HEGIS Taxonomy.

³ Emanuel Weinstein. "International Standard Classification of Education (ISCED) Handbook for the United States: A Report." Commissioned Paper. (Washington: National Center for Education Statistics, December 1982).

An ISCED crosswalk system needs to deal with all three components of the U.S. data collection system in order to provide complete coverage of U.S. education program activity.

Integrated Postsecondary Education Data System (IPEDS). IPEDS is the comprehensive data collection tool by which the National Center for Education Statistics obtains statistics on U.S. postsecondary institutional activity. It is a comprehensive system because it combines several different surveys into a single data collection process. IPEDS data pertaining to instructional programs are collected using CIP as the definition and classification tool. CIP also controls the analysis, interpretation, and reporting of such data. Specific IPEDS survey categories that employ CIP include: enrollment in occupationally specific instructional programs, program completion data (all instructional programs), and institutional characteristics.

IPEDS was first implemented for 1986 data as a successor to the previous HEGIS data collection system.⁴ It has relied on voluntary cooperation by postsecondary institutions and on data collection agreements negotiated, and continuously updated, between NCES and state education agencies, state occupational information coordinating committees (SOICCs) and associated information systems, educational organizations, and institutions. Beginning in 1994, however, participation in IPEDS will become mandatory for all postsecondary institutions seeking to become, or remain, eligible to participate in U.S. Department of Education assistance programs (grants and loans) for registered students. IPEDS is the most comprehensive national postsecondary data collection activity in the United States.

Classification of Instructional Programs (CIP). The *Classification of Instructional Programs, 1990 Edition* is the official U.S. federal data standard for reporting statistics on instructional programs at all levels of education, including data on programs offered by institutions, student enrollments in programs, program completions, related faculty and resources, library programs, and various estimates and projections that guide national policy.

CIP defines and controls the programmatic categories by which data from institutions and surveys are collected, analyzed, and disseminated. It is the taxonomic framework underlying most major federal education surveys and databases including those of the National Center for Education Statistics (U.S. Department of Education); National Science Foundation; Bureau of Labor Statistics (U.S. Department of Labor); Bureau of the Census (U.S. Department of Commerce); and various education-related activities of the U.S. Departments of Agriculture, Defense, Health and Human Services, and State.

Because many private sector data bases depend upon data obtained from the National Center for Education Statistics and other federal agencies in addition to their own, the CIP system also underlies many surveys and analyses conducted outside the government. These users of

⁴ HEGIS stands for Higher Education General Information Survey. HEGIS was developed by the National Center for Higher Education Management Studies (NCHEMS) under an NCES contract and was used to collect national data from 1968 to 1985. HEGIS is still in use as a private data system but has been superseded at the federal level by the more comprehensive, up-to-date, and accurate IPEDS system.

federal data include such organizations as the College Board, Educational Testing Service, Institute of International Education (IIE), American Council on Education (ACE), and others.⁵ Many state governments, educational systems, and individual institutions use CIP or classifications derived from it, as do independent researchers who employ federal education data in their work or cite it.

Common Core of Data (CCD) Survey. The CCD functions as does IPEDS, except for the primary and secondary levels of education. It is a comprehensive series of survey instruments sent annually to state education agencies for collecting data the agencies obtain from public school districts, local education agencies, and individual schools. Five separate surveys are conducted: the public school universe (selected characteristics of schools); the local education agency universe (basic agency data plus aggregate student statistics); the state aggregate non-fiscal report (student and staff data, statewide); the state aggregate fiscal report (state agency fiscal data); and early estimates (statewide school-year enrollment projections as of December 31). The CCD permits the maintenance of a national data base on public primary and secondary education, based on uniform reporting requirements and operational definitions.

The CCD was first implemented in 1981, and has been refined periodically since that year. No data on the educational activities of students in the K-12 grades, such as subjects studied and courses taken en route to the high school diploma, are collected through CCD. Data are collected only on enrollments at each grade level and on the number of students earning high school diplomas or equivalency certificates. For purposes of definition, a high school diploma course of studies equates to a program as defined in CIP for postsecondary education. Programs of more specificity, corresponding to a secondary-level concentration or "major," do not usually exist in the United States.

Direct information about what subjects American high school students study is obtainable from the databases for each of the national longitudinal studies that have been sponsored by NCES since 1972.⁶ Each of these studies collects secondary school transcript data on respondents' course-taking activity. Because there is an 8-year gap between each of these studies, only the most recent transcript sample (1992) can be used to approximate current

⁵ The National Center for Education Statistics and other federal agencies supply data to these and other organizations through various formal and informal arrangements, and such data are also available to the public. Federal law and regulations do not require the recipients to acknowledge the origin of the data (unless obtained under a contract), although the professional courtesy of citation is requested. For this reason, these data are frequently provided to organization clients in repackaged form without attribution as to origin, and the extent of reliance on federal expertise and data collection capabilities is thus obscured.

⁶ Three longitudinal studies have been conducted to date: the National Longitudinal Study of the High School Graduating Class of 1972 (NLS-72), starting with a sample of 12th graders; the High School and Beyond Study (HSB), starting with two samples, one of the sophomore (grade 10) and a second of the senior (grade 12) class of 1980; and the National Education Longitudinal Study of 1988 (NELS-88), starting with a sample of students in grade 8 as of 1988. Each longitudinal study is followed up at intervals across the academic and work careers of the respondents, with successive sample cohorts being surveyed. In addition, secondary and postsecondary transcript records are collected from respondents who agree to furnish them.

practices. For this reason, no crosswalk pertaining to U.S. PK-12 curriculum content areas is presented in this *Guide*.

CHAPTER 1

Technical and Methodological Considerations

Statistical data need to possess certain characteristics in order to be comparable. The data should be based on classification systems that use similar definitions and concepts and that are collected through similar methods. Those who make comparisons should understand that comparability is limited to data that possess these characteristics and to concepts that can be appropriately expressed in quantitative terms.

CIP and ISCED Definitions of an Instructional Program

The CIP instructional program classification system and ISCED define an instructional program the same way. The 1990 CIP defines an instructional program as follows:

A combination of courses and experiences that is designed to accomplish a predetermined objective or set of allied objectives such as preparation for advanced study, qualification for an occupation or range of occupations, or simply the increase of knowledge and understanding.⁷

This conceptual definition is then restated in operational terms:

An instructional program must be offered by, through, or under the auspices of an educational institution or other provider; [and the] accomplishment of predetermined objectives must mean, in practice, the presence of a set of structured learning experiences, as defined by an institution or other provider, that lead to a completion point, and that point must be formally certified via an award or other form of recognition.⁸

The ISCED definition of an instructional program is similar to that of CIP:

*For the purposes of ISCED, ... **education** is taken to comprise **organized and sustained communication designed to bring about learning**. **Communication** requires a relationship between two or more persons involved in the transfer of information. **Organized** is intended to mean planned in a pattern or sequence with established aims or curricula. ... **Sustained** is intended to mean that the*

⁷ W. Dale Chismore and Quentin M. Hill, *A Classification of Educational Subject Matter, State Educational Records and Reports Series: Handbook VI* (Washington: U.S. Government Printing Office, 1978), p. 165, quoted in Robert L. Morgan, E. Stephen Hunt and Judith Carpenter, *Classification of Instructional Programs: 1990 Edition*, (Washington: U.S. Government Printing Office, 1991), p. x.

⁸ Morgan, Hunt, and Carpenter (1991), p. x.

*learning experience has the elements of duration and continuity. Learning is taken as any change in behavior, information, knowledge, understanding, attitudes, skills or capabilities which can be retained and cannot be ascribed to physical growth or to the development of inherited behavior patterns.*⁹

As has been pointed out in previous NCES-sponsored studies comparing U.S. and ISCED concepts and structure,¹⁰ both ISCED and CIP are referring to the same type of data and define these data in similar ways. Therefore, no basic conceptual obstacle stands in the way of defining U.S. postsecondary instructional program data in terms of ISCED. Any problems to be encountered with such a crosswalk will be technical, not cultural, since ISCED is an international set of conventions and does not represent any national system. Since other national users of ISCED interpret their data in terms of this set of conventions as well, valid and reliable international comparisons employing the ISCED system are possible.

U.S. and ISCED Level Definitions

ISCED organizes educational programs into levels. CIP is not organized according to the degree level at which programs are awarded, but rather by the type of program being described.¹¹ The levels at which various program data are reported, corresponding to levels of degrees awarded, are defined by IPEDS survey instruments and database conventions. Thus for postsecondary education program data, CIP and IPEDS must be treated together in constructing a crosswalk to ISCED.

In ISCED, education levels are defined as:

*... categories representing broad steps of educational progression from very elementary to more complicated learning experiences.*¹²

There are eight identified ISCED levels. An examination of the level descriptions in the ISCED manual reveals that ISCED levels are operationally defined in terms of school years

⁹ UNESCO Division of Statistics on Education, Office of Education, *International Standard Classification of Education: ISCED*, (Paris: UNESCO, March 1976), p. 2.

¹⁰ Emanuel Weinstein, p. 4.

¹¹ There are three specific exceptions to this statement in the 1990 CIP. First-professional degree programs, a separate data category including certain first degrees in professional fields, are defined by the degree awarded. So are general nursing programs, because in the United States such programs are degree-specific. In addition, some programs that are not offered at postsecondary levels (high school diplomas and certificates), that are not definable by level (leisure programs), or that are level-specific but for which data are not regularly reported (hospital residencies and Reserve Officer Training Corps programs) are separated from other classified programs. Each exception has been made in the interests of insuring accurate data reporting.

¹² UNESCO, *International Standard Classification of Education*, p. 4.

(grades) completed, or completion awards earned, where appropriate.¹³ This is the same procedure followed in IPEDS. Because the ISCED operational definitions express educational levels in terms of age ranges and sequence of instruction, they can be translated into U.S. equivalents.

Level definitions used in the CCD survey system to report primary and secondary education data are based upon school grade levels and thus are equally amenable to translation into ISCED levels.

The Organization of Program Descriptions in CIP and ISCED

CIP Organizational Structure. CIP program descriptions are organized into three categories of specificity. Individual program descriptions in CIP correspond to discrete instructional programs as offered in schools and other educational institutions. They are each assigned a unique 6-digit code. In the 1990 CIP there were 1,066 individual program descriptions assigned 6-digit codes.

Second, the 6-digit codes/program descriptions are grouped into what are called Series, with each Series assigned a 4-digit code (the same as each 6-digit code within the Series minus the last two digits). There are 341 separate 4-digit Series codes in the 1990 CIP. These 4-digit Series are further grouped into a final set of Series, assigned a 2-digit code (the first two digits of the 4-digit Series code). The 1990 CIP contains 49 two-digit Series.

A user of CIP who refers to a specific program description can instantly tell its location in the layered system of Series aggregations. Data collected via IPEDS that use CIP codes are reported at the 6-digit CIP code level of detail. The collected data are analyzed and published at different levels of detail (Series or individual code) depending upon the nature of the study being conducted or the information request received.

Typical CIP program descriptions look like this:

27. **MATHEMATICS.** A summary of groups of instructional programs that describe the systematic study of logical symbolic language and its applications.

27.01 **Mathematics.** A group of instructional programs (see 27.0101)

27.0101 **Mathematics.** An instructional program that describes the rigorous analysis of quantities, magnitudes, forms, and their relationships using symbolic logic and language. Includes instruction in algebra, calculus, functional analysis, geometry, number theory, logic, topology, and other mathematical specializations.

¹³ *Ibid.*, pp. 5-12.

The first description, numbered 27, is the 2-digit Series, followed by the 4-digit Series and the individual 6-digit code. In this example, all three layers of the classification "mathematics" possess the same title. CIP codes and Series are usually identified by means of their numerical designations.

ISCED Organizational Structure. Each ISCED program description is assigned a 5-digit code. The first digit identifies the education level. Within the system of educational levels, ISCED defines programs by two categories: broad subject fields and program descriptions within the broad fields. (It should be noted that an ISCED program description, called a "program group" in the ISCED Manual, is really an aggregate description combining several programs that would be coded individually in CIP.) ISCED's broad fields are assigned a 2-digit code and are as follows:

- 01 *General Programmes*
- 08 *Literacy Programmes (Adult)*
- 14 *Teacher Training and Other Education Programmes*
- 18 *Fine and Applied Arts Programmes*
- 22 *Humanities Programmes*
- 26 *Religion and Theology Programmes*
- 30 *Social and Behavioural Sciences Programmes*
- 34 *Commercial and Business Administration Programmes*
- 38 *Law and Jurisprudence Programmes*
- 42 *Natural Sciences Programmes*
- 46 *Mathematics and Computer Sciences Programmes*
- 50 *Medical and Health Programmes*
- 52 *Trade, Craft, and Industrial Programmes, n.e.c.*
- 54 *Engineering Programmes*
- 58 *Architectural and Town-Planning Programmes*
- 62 *Agricultural, Forestry, and Fishery Programmes*
- 66 *Home Economics (Domestic Science) Programmes*
- 70 *Transport and Communications Programmes*
- 78 *Service Trades Programmes*
- 84 *Programmes in Mass Communications and Documentation*
- 89 *Other Programmes*

Residual counts of programs are coded "89" at the broad field level and "99" at the program group/description level. Distinct sub-fields, such as allied health within the broad "Medical and Health Programs" field, are indicated in ISCED by assigning a different fourth digit to each such subfield code.

Overall, the ISCED system contains 21 distinct broad field categories (repeated at various levels for a total of 107 level-specific field descriptions), and 520 level-specific program descriptions. ISCED broad fields and program groups are organized across eight different education levels. By level, the ISCED field and program counts are:

<u>Level</u>	<u>Broad Fields</u>	<u>Program Descriptions</u>
0 [Prekindergarten/Kindergarten]	1	1
1 [Grades 1-6; Adult Literacy]	10	31
2 [Grades 7-9]	11	40
3 [Grades 10-12]	13	71
5 [Postsecondary LT 4 Years]	19	123
6 [Bachelor's/Post-B Cert.]	17	106
7 [Graduate Awards]	16	99
9 [Personal/Leisure Programs]	20	49
Total:	107	520

Gaps occur in the ISCED numbering sequences in regard to level, field, and program description. These gaps are purposefully designed to allow for potential expansion of the system, although to date no expansion has occurred.

Overcoming CIP and ISCED Differences

CIP and ISCED cover the same universe of instructional programs but group them differently. CIP 6-digit program descriptions are usually, but not always, more specific than any program group description in ISCED, regardless of ISCED level.

Basing the Crosswalk on Six-Digit CIP Codes. While CIP and ISCED do not group program categories in precisely the same ways, the differences can be overcome. In both systems, the aggregated general categories are composed of collections of specific programs. In CIP the most specific category is coded into the system (6-digit level). The most specific ISCED category is not coded into the system, but is identified in the descriptions accompanying each ISCED program group. These descriptions indicate the specific programs that are meant to be included under each ISCED program group. Thus, the CIP 6-digit program codes that belong in each ISCED program group can be determined. By constructing a crosswalk from the most specific level up to the general, it is possible to identify groupings of 6-digit CIP codes that directly and accurately correspond to ISCED program groups and broad fields.

Using ISCED Rules to Insert Necessary Codes. In some cases, program data are reported in the United States at a level other than, or in addition to, the level at which a program is

described in ISCED. For example, in the United States, art history is offered as an instructional program at the equivalent of ISCED Level 6, but no ISCED Level 6 code appears for it. An ISCED Level 7 code for art history does exist, however. ISCED rules permit such a problem to be resolved by inserting a Level 6 code for art history, using the code number as it appears (Level 7) but prefixed by "6" instead of "7." So long as a program group code appears at some level in the ISCED system, it can be inserted where needed at any other level.¹⁴ The ISCED code insertion rule accommodates national differences in educational practice and greatly reduces the number of unresolvable data placement problems. Any program data which do not fall under any extant ISCED code are placed in the "other" category at the end of each ISCED Level series.

Maintaining Consistent Code Placements Across Levels. ISCED is structured according to a set of assumptions about where most countries offer various programs. These assumptions include education level, type of program, and content specificity. At each educational level, ISCED program descriptions state what kinds of subject matter are expected to be taught, at what level of detail, and what types of program outcome (degree/nondegree, academic/vocational, etc.) are likely. These assumptions make interpretation difficult, since no national system is arranged precisely according to the ISCED model. Unless care is taken, the result can be a crosswalk that is inconsistent across educational levels. The interpretation presented in this *Guide* makes every effort to avoid this problem. Chapters 3-10 contain an item-by-item discussion of how U.S. education program codes can be crosswalked into ISCED at each level, and *vice versa*.

U.S. and ISCED Educational Level Organization

The IPEDS and CCD data collection systems serve the function of distinguishing U.S. education data by level. CCD does this for primary and secondary data by grade level; IPEDS does so for postsecondary data by level of degree or other award.

CCD Education Levels. CCD employs a grade structure that consists of prekindergarten (PK), kindergarten (K), and grades 1-12. Additional data categories exist for ungraded students and, for statewide data only, students with Individual Education Plans (IEPs). These additional categories encompass a variety of educational arrangements and services, including special education students (learning disabled and handicapped); students who take extra secondary credits after 12th grade; and students who pass secondary school equivalency examinations.

Data reporting through CCD is done by individual grade level. Reporting data by grade level is necessary because the grade at which primary education is deemed to be completed and the grades identified as the local equivalent of lower secondary education (where the concept exists) vary from state to state. While each U.S. state sets a primary school completion point, there is no standard practice of awarding a certificate or other indication of

¹⁴ UNESCO, *International Standard Classification of Education*, p. 15.

completion at that point. Consequently, data on primary, lower secondary, and upper secondary level completions do not represent uniform national statistics.¹⁵

The CCD levels used in reporting students enrolled in, and completing, different grades are as follows:

<u>Code</u>	<u>Title/Description</u>
D	<i>Students by Grade Level</i>
D01	<i>Prekindergarten</i>
D02	<i>Kindergarten</i>
D03	<i>Grade 1</i>
D04	<i>Grade 2</i>
D05	<i>Grade 3</i>
D06	<i>Grade 4</i>
D07	<i>Grade 5</i>
D08	<i>Grade 6</i>
D09	<i>Grade 7</i>
D10	<i>Grade 8</i>
D11	<i>Grade 9</i>
D12	<i>Grade 10</i>
D13	<i>Grade 11</i>
D14	<i>Grade 12</i>
D15	<i>Ungraded</i>

In addition to the 14 general grade levels by which CCD data may be disaggregated, CCD employs two other coding sequences that relate to educational level: Instructional Staff and Support Services Staff. Some (but not all) state education agencies report data in these data categories as follows:

<u>Code</u>	<u>Title/Description</u>
B	<i>Instructional Staff</i>

¹⁵ Annual data collections reveal that patterns of education level demarcation vary within as well as among states. In the United States primary and secondary education are treated together as a continuum, with the only critical points being the end of compulsory school attendance (determined by age and also varying by state) and high school graduation (always the completion of 12th grade or the equivalent). Concepts such as "elementary," "middle," "junior high," and "senior high" school are generally understood and used in common discourse, but are not as important as they are in countries where similar concepts denote important transition points in student development, have legal meaning in terms of credentialling, and are marked by critical national examinations and counseling decisions. For these reasons, statistical data are usually reported by individual grade rather than broad level. Recent data (1993) from the CCD universe database indicate that fewer than 6 percent of all U.S. schools follow a level breakout similar to that used for ISCED levels 0-3. Detailed analyses of this complex topic may be found in the *Common Core of Data Public Elementary and Secondary School Universe* (Washington: NCES, annually updated database); and Lena McDowell, *Public Elementary and Secondary Schools and Agencies in the United States and Outlying Areas: School Year 1991-92*, E.D. Tabs No. NCES 92-031, (Washington: NCES, June 1993).

B01	<i>Prekindergarten Teachers</i>
B02	<i>Kindergarten Teachers</i>
B03	<i>Elementary Teachers</i>
B04	<i>Secondary Teachers</i>
B05	<i>Teachers of Ungraded Classes</i>
C	<i>Support Services Staff</i>
C01	<i>Elementary Guidance Counselors</i>
C02	<i>Secondary Guidance Counselors</i>

Each state is permitted to interpret the terms "prekindergarten," "kindergarten," "elementary" and "secondary" using its own laws and regulations.

CIP Secondary Education Program Codes. The CIP system also recognizes a set of general secondary school program completions and includes codes for them in its Series 53. They correspond to the senior high school level (grades 9-12), and are as follows:

53. HIGH SCHOOL/SECONDARY DIPLOMAS AND CERTIFICATES

53.01 High School/Secondary Diplomas

- 53.0101 *Regular (General) High School Diploma Program*
- 53.0102 *College Preparatory High School Diploma Program*
- 53.0103 *Vocational High School Diploma Program*
- 53.0104 *Honors/Regents High School Diploma Program*
- 53.0199 *High School/Secondary Diplomas, Other*¹⁶

53.02 High School/Secondary Certificate Programs

- 53.0201 *High School Equivalence Certificate*
- 53.0202 *High School Certificate of Competence*
- 53.0203 *Certificate of IEP Completion*
- 53.0299 *High School/Secondary Certificates, Other*¹⁷

¹⁶ U.S. practice recognizes all types of high school diploma as equivalent in terms of signifying secondary graduation. The content of the course of studies for each type of diploma varies by state, by school, and by individual recipient, since state laws frequently permit wide discretion in interpreting requirements. Postsecondary institutions impose entrance requirements that are regularly published and updated which show what courses of study, and credits earned, in secondary programs are acceptable.

¹⁷ Persons who did not complete regular secondary school may prepare for the *High School Equivalence Certificate* through the General Educational Development (GED) program. Upon completing the GED program and passing a comprehensive examination, individuals are awarded a certificate which is legally equivalent to a regular high school diploma. A *Certificate of Competence* indicates that a student has met specific performance standards in some special field, such as a vocational subject, academic subject matter (languages, mathematics, etc.), or passed an achievement test. It is not equivalent to diploma award. A *Certificate of IEP Completion* means that a student with a learning disability has completed a customized Individual Education Plan (IEP). Whether an IEP represents a full secondary program

These program descriptions are among the very few in CIP that may be used for reporting instructional program data below the postsecondary levels. The CIP definition of an instructional program refers to structured learning experiences that are composed of several component experiences (courses, fieldwork, laboratories, lectures), have defined entrance and completion points, and result in an award or other certification of completion. Most U.S. secondary school studies consist of subject-matter fields organized into courses, which are discrete modules lasting up to an academic year in length. Courses are not complete programs, and it is not intended that secondary students concentrate in a special field and thus complete a program. Instead, U.S. secondary education is structured around the requirements for general diplomas, and these are the only sequences that qualify as instructional programs. Some states have recognized certain subject-matter foci, particularly in vocational fields, as secondary-level programs, but this is not a nationally consistent practice.

CIP secondary program codes are not currently employed in the CCD survey. The CIP secondary program codes correspond, however, to the following CCD data categories:

<u>CCD Code</u>	<u>Title/Description</u>	<u>CIP Equivalent(s)</u>
E	<i>High School Completers</i>	(all)
E01	<i>Regular Diploma</i>	(53.0101)
E02	<i>Other Diploma</i>	(all other diploma codes)
E03	<i>High School Equiv. Recipients</i>	(53.0201)
E04	<i>Other High School Completers</i>	(other certificate codes)

IPEDS Postsecondary Education Levels. Instructional programs that lead to content-specific awards (degrees, diplomas, certificates, etc.) are the rule rather than the exception at the postsecondary level. Furthermore, these program completion points are reached by different students on different timetables, according to individual institutional program requirements on the one hand and student persistence on the other. For these reasons it is both meaningful and logical to report postsecondary program data, whether for enrollments or completions, by level of award. IPEDS assigns reported program data to one of 11 levels, corresponding to successive points of program completion and/or award. These levels are defined in Question 4 of the standard IPEDS survey instruments. They include:

- LT1** *Postsecondary Award, Certificate or Diploma of Less Than One Academic Year*
- LT2** *Postsecondary Award, Certificate or Diploma of At Least One but Less Than Two Academic Years*
- Asc** *Associate's Degree*
- LT4** *Postsecondary Award, Certificate or Diploma of At Least Two but Less Than Four Academic Years*

depends upon the individual case.

Bac	<i>Bachelor's Degree</i>
PBC	<i>Postbaccalaureate Certificate</i>
Mas	<i>Master's Degree</i>
PMC	<i>Post-Master's Certificate</i>
Doc	<i>Doctor's Degree</i>
1PD	<i>First-Professional Degree</i>
1PC	<i>First-Professional Certificate (Post-Degree)</i>

IPEDS levels comprise a sequence of increasing distance from secondary school completion. Levels 1PD and 1PC are out of sequence because they refer to programs that are post-bachelor's. Neither level 1PD or 1PC is equivalent to IPEDS level Doc, which denotes the research doctorate.¹⁸

Data on programs that do not fall into the IPEDS level sequence, such as personal development, leisure, and basic adult education programs, are not currently collected. They are occasionally gathered using surveys with more limited objectives, such as the National Adult Literacy Survey. When CIP codes are used in such surveys there is no correspondence to the levels of formal education.

¹⁸ Most of the degrees called "first professional" in U.S. terminology are labeled doctorates, such as Doctor of Medicine (MD), Doctor of Dental Science (DDS), Doctor of Pharmacy (PharmD), and Doctor of Laws (JD), among others. None of the degrees in this special category is a research doctorate, however. Each represents a first degree in the subject studied and is considered a graduate-level degree only because a previous bachelor's degree or the equivalent had to be earned. Genuine graduate research degrees are awarded in most of these professional fields, but they are higher degrees. A complete list of the recognized first-professional degrees follows, accompanied by a partial listing of the most common graduate degrees in each field.

<u>1PD Degree</u>	<u>Master's Degree</u>	<u>Research Doctorate</u>
Chiropractic (DC, DCM)*	None	None
Dentistry (DDS, DMD)	MS	PhD
Divinity/Ministry (BD, MDiv)**	MA, MTh	PhD, ThD
Law (LLB, JD)	LLM, MCL	JSD, SJD
Medicine (MD)	MS	PhD
Optometry (OD)	MS	PhD
Osteopathic Medicine (DO)	MS	PhD
Pharmacy (BPharm, PharmD)	MS	PhD
Podiatry (PodD, DP, DPM)	None	None
Rabbinical/Talmudic Studies (MHL, Rav)	Same	DHL, PhD
Veterinary Medicine (DVM)	MS	PhD

* May require only an Associate Degree as a prerequisite; in such cases the 1PD level is equivalent only to a single bachelor's degree.

** The further professional degree "Doctor of Ministry (DMin)" is frequently awarded after the MDiv. It is an advanced professional qualification and is not equivalent to a research doctorate.

The category of first professional degree is limited to the eleven fields listed above and is thus not exhaustive of all professional fields nor of all degrees which could be styled "first professional."

Educational Levels Used in ISCED. ISCED uses an educational level organization that is much simpler than the combined CCD and IPEDS systems. It comprises eight categories corresponding to broad ranges of educational development, as follows:

- 0 *Education Preceding the First Level*
- 1 *Education at the First Level*
- 2 *Education at the Second Level, First Stage*
- 3 *Education at the Second Level, Second Stage*
- 5 *Education at the Third Level, First Stage, of the Type That Leads to
 an Award Not Equivalent to a First University Degree*
- 6 *Education at the Third Level, First Stage, of the Type That Leads to a
 First University Degree or Equivalent*
- 7 *Education at the Third Level, Second Stage, of the Type That Leads to
 a Postgraduate University Degree or Equivalent*
- 9 *Education Not Definable by Level*

An examination of the level descriptions in ISCED reveals that they are operationally defined in terms of school years (grades) completed, or completion awards earned, where appropriate.¹⁹ IPEDS and other U.S. educational surveys define levels in the same way that ISCED does. The operational definitions of each of the ISCED levels are:

- 0 Education beginning at around ages 3-5, lasting 1-3 years.
- 1 Education beginning at ages 5, 6, or 7 and lasting for 5-6 years.
 [Note: Basic Adult Literacy data are also reported here under
 the ISCED system.]
- 2 Education beginning at around ages 11-12 and lasting for about 3
 years.
- 3 Education beginning at around ages 14-15 and lasting for about 3
 years.
- 5 Education beginning at about ages 17-18, lasting up to 3 years, and
 that often prepares persons for employment.
- 6 Education beginning at about ages 17-18, lasting around 4 years, and
 that prepares persons for postgraduate study or employment.
- 7 Education beyond Level 6 which requires prior completion of Level
 6.

¹⁹ UNESCO, *International Standard Classification of Education*, pp. 5-12.

- 9 Out-of-school educational programs and experiences for which no explicit or implicit prerequisites exist, which are outside the core school or university system, and which are often part-time and of short duration.

With allowances for the fact that these operational parameters were framed in the early to mid-1970s and reflect the then-current bias toward defining educational levels in terms of "traditional" school-age populations, they nonetheless correspond to recognizable stages that have U.S. equivalents.

Crosswalking between U.S. and ISCED Level Organizations

There is no particular difficulty in assigning U.S. levels of education to corresponding ISCED levels, or *vice versa*. The fact that the ISCED level assignments do not precisely correspond to U.S. postsecondary degree structure or to particular state-designated school levels is not an impediment since ISCED defines education levels in terms of year-equivalents of schooling completed, as do most U.S. systems. By concentrating on these successive and cumulative school-year equivalencies, one can derive the following comparable level descriptions:

ISCED Level	U.S. Equivalent
0	Prekindergarten — Kindergarten
1	Grades 1-6; Basic Adult Literacy data
2	Grades 7-9
3	Grades 10-12
5	Postsecondary programs from Less Than One Year to At Least Two But Less Than Four Years
6	Bachelor's Degree and Postbaccalaureate Certificate
7	All IPEDS levels beyond the Postbaccalaureate Certificate, including First-Professional
9	Personal Improvement and Leisure Programs data

The Data to be Crosswalked

A crosswalk is a guide for both coders and users of data. For coders, a crosswalk must permit the interpretation and accurate placement of all data that may exist in the database to be crosswalked. In order to accomplish this function, the crosswalk instructions must include placements for every data element in each system, regardless of whether actual data are collected for a specific data element at any given point in time. The fact that data are collectable requires crosswalk instructions, since not to do so would entail modifying the crosswalk every time the data change. Such piecemeal modifications are neither cost-effective nor good statistical practice.

Users of crosswalked data have other interests besides coding. Data interpretation, to users, also means knowing what data are actually available and why such data are assigned to one position in the crosswalk and not to another. A user's interest in empirical knowledge about the data is thus different from a coder's interest in accurate and complete guidance concerning what to do with data.

The primary function of this *Guide* is to describe a crosswalk that enables U.S. education program data to be accurately reported using the ISCED classification system. The *Guide* has a second function as well, which is to indicate to users information about the data to be crosswalked. Both coders and other users will benefit from knowing which U.S. data codes are being used to report data as of the most recent reporting year (1990-1991). They will also benefit from knowing about the additional U.S. program codes that correspond to each ISCED program group and that fall under two other categories: (1) existing codes for which data may be collected in different years, and (2) codes added to the 1990 CIP and which may be expected to result in data in the future. Chapter 2 contains decision rules and conventions concerning how this *Guide* distinguishes these types of codes. Such distinctions are listed in the discussion of each crosswalk category which appear in chapters 3-8. The chapter discussions also indicate why U.S. program codes are crosswalked to the ISCED system at particular levels. Both the chapters and the appendix also indicate, for those interested, which crosswalked data codes are collecting significant data.

Limitations on Comparability

It is technically possible to produce crosswalks from U.S. educational program and level structures to the ISCED system and to do so in a manner that is logical and consistent. The results of such an exercise will be reliable and valid within the limitations of the data and the data-coding categories used. While this document does not provide room for an adequate discussion of national or international data comparability problems, it is appropriate to remind the user of several general considerations.

Factors Affecting U.S. Data. The tremendous variety inherent in U.S. educational institutions and systems, compounded by the federal political structure and the internal governance structures for education in each U.S. jurisdiction, result in internal complexities

that in many respects mirror international data problems. Technical definitions, conventions, reporting standards, formulae, analysis procedures, and publication conventions differ across (and often within) states, districts, and institutions. National data based on uniform criteria can be obtained only for items presented in nationwide surveys to which respondents agree to follow standardized reporting guidelines, and thus will not always match data reported under local guidelines, different survey methodologies, and other collections. Any aggregation of data that is presented as a national statistical portrait will be valid only within whatever parameters surround the data collected for it. Initiatives and agreements are constantly in progress to achieve wider standardization of terms, definitions, and formulae, but this process is necessarily lengthy. The complexity that characterizes U.S. education data affects the construction of a "national" portrait of U.S. educational activity. Efforts to generalize about U.S. national educational activity cannot extrapolate the experience of a single U.S. state to the whole country, or simply sum individual states' published data.

These caveats are not data quality limitations per se, but rather reflect the organization and governance of American education. Each country that reports data for comparative purposes through ISCED possesses a unique set of such caveats. This is why such data represent only an approximation of the educational activity in the world, and are useful primarily for general information.

Factors Affecting ISCED. ISCED contains fewer program descriptions and level distinctions than actually exist in U.S. practice or in the practice of many other nations that employ the ISCED system in reporting data internationally. Also, the arrangement of ISCED program groups at different levels differs from that prevailing in the United States and other countries. The fact that ISCED rarely matches the education program data classification used by a specific country necessitates adaptation whenever ISCED is used to report national data. A situation thus arises whereby data reported via ISCED program groups and levels may not accurately reflect what goes on inside the educational system that is purportedly described by those adapted data. Indeed, some data may be placed, for ISCED reporting purposes, into categories that have no meaning in the national system for which they are reported. The result is that education program data reported under the ISCED system may be useful as general descriptive information but do not necessarily represent a detailed or even accurate picture of a specific nation's national educational degree structure, sequence, or program activity.

Interpretation and Use of Crosswalked Data

Domestic data collected by CCD and IPEDS (the latter using CIP codes) are descriptive of U.S. educational activity, and may be used in analyses of trends in such areas as enrollments and completions. These data do not answer questions related to the quality of the educational activity thus observed or the standards involved in the certification of given levels of achievement. Likewise, ISCED is a descriptive statistical tool that cannot be used to compare the process and quality of educational systems and programs. Program and level characteristics differ widely—both between and within countries. A U.S./ISCED crosswalk

is useful in comparing statistics about aggregate trends and even organization but is insufficient by itself to address issues such as the equivalence of program and degree content, academic standards, or system quality.

Particular concern surrounds the problems presented by three U.S. educational program completions: secondary graduation, less-than-4-year postsecondary programs, and the bachelor's degree. Neither American nor foreign educational authorities regard these U.S. completion awards as directly equivalent to some foreign secondary school completion awards that are treated, in the ISCED system, as similar. The foreign examples most frequently cited are the upper-level European academic secondary graduation awards (such as the French *Baccalauréat*, German *Abitur*, English Sixth Form/A Levels, and others), and the first-university degrees in countries whose postsecondary systems follow the European university model. Both these degree levels and their U.S. counterparts must now be reported at the same ISCED Level because the ISCED system possesses no means of fine-grained disaggregation.

There is no way to avoid an appearance of spurious equivalency under current international classification rules, since ISCED itself does not provide for the fine-grained level breakouts that would be needed to separate such awards. Nor does ISCED address issues such as the differences in curriculum content, standards, and intensity of study that mark the real distinctions between various secondary and postsecondary programs in different countries.

Decentralized, market-oriented educational systems, such as the American, exhibit inherent internal variations and inconsistencies. These variations are accepted within the society as a trade-off between the competing principles of national consistency and unity, on the one hand, and avoidance of excessive political intrusion into local life by national policymakers, on the other. To those outside the society, however, confusion and frustration can result from the inability to make safe generalizations about important aspects of such a system, particularly things like the uniformity and quality of its credentials. Notwithstanding these difficulties, decentralized systems possess identifiable characteristics that permit them not only to function well in spite of such diversity but to take advantage of the flexibility and resiliency that also inheres within a system driven both by market and political forces.

Likewise, educational systems which are nationally centralized or at least more closely regulated possess internal variations despite the outward appearance of uniformity, and these patterns make it difficult—sometimes impossible—to generalize about them. Many such systems possess more than one type of secondary and/or postsecondary track, very complex degree structures and multiple paths to the same credential, and differentiated institutional structures with separate academic cultures and governance structures. Furthermore, quality is not necessarily uniform throughout centralized educational systems, despite frequent official claims to the contrary. The point is that both formality and informality can produce similar pitfalls for cross-national comparisons; one is not necessarily preferable to the other on grounds of clarity, simplicity, or consistency.

Whether educational systems are more or less centralized, broad designations and national

standards may not reflect what occurs in any particular educational institution and obviously do not reflect the actual experience of any specific individual. Differences of educational philosophy, program content, teaching methods, and learning styles exist even where formal structures are superficially similar, and render comparative analyses difficult. ISCED's purpose is to place the programmatic and institutional data-reporting categories of national education systems into a consistent framework in order to permit analyses of broad educational trends. Inevitably, this means that some precision is lost, as local definitions and practices are ignored. It also means, certainly, that some questions which aggregate descriptive and trend data cannot answer lie outside this system. On the other hand, ISCED is a powerful tool for observing general transnational activity in agreed-upon categories of level and program type.

Various proposals have been made, and some have been implemented, to overcome the effect of collapsing data on unlike degree levels into the same broad ISCED levels. Each ISCED level can be broken out into sublevels by assigning each ISCED level a two-digit code, as is being done in the United States and by the International Association of Universities (IAU).²⁰ This permits a breakout of each ISCED level into as many as nine sublevels (with a 10th position for unclassifiable data), thus permitting more detailed distinctions between degree levels than the basic ISCED system allows. Data organized under these sublevels can be aggregated to produce a standard ISCED format as necessary.

Another solution is to modify the ISCED system itself by adding the two currently missing levels, 4 and 8. This possibility has been discussed internationally and would entail reorganizing the contents of the levels.²¹ If a reorganization of ISCED levels were considered, Levels 1-3 could remain as they are, but the other levels would be changed by the insertion of 4 and 8. No reorganization plan has come under active consideration, however, and so this solution remains speculative at this time. Level reorganization is a conservative alternative to even more radical proposals to create a replacement for ISCED.

Summary

None of the problems associated with developing a U.S./ISCED crosswalk are insurmountable, nor do they negate the value of such a crosswalk. Definitional compatibility

²⁰ The U.S. National Science Foundation (NSF) and National Research Council (NRC) are planning to implement an international data coding system that uses a two-digit ISCED level breakout derived from the institutional level and program type coding systems developed by the IAU. See Trans Regional Academic Mobility and Credential Evaluation (TRACE) Coordinating Center, *TRACE User's Manual*, (Paris: International Association of Universities, International Universities Bureau, 1991).

²¹ The theoretical reorganization of ISCED levels was recently discussed at the Meeting of Experts on Educational Indicators and the International Standard Classification of Education (ISCED), Paris, June 11-17, 1992. Similar meetings have been held at intervals since the ISCED system was implemented in 1976. Informal discussions pertaining to ISCED level problems have also been held between representatives of the U.S. Department of Education and the OECD and UNESCO, Paris, January 22-24, 1992.

between the classification systems exists, and this allows direct translation of data elements from one to the other.

Naturally, such a crosswalk is limited by the type of data that it serves. Here, we are talking about aggregate descriptive data that have already been refined at the national level and are to be refined a further step in order to be presented at the international level. One cannot use such data for sophisticated multivariate analyses of research questions; but the data can be useful for noting broad trends across generally recognized educational categories. This alone represents a major advance for comparative educational research and for policymaking and is worth the effort. Furthermore, similar limitations exist for all national statistics that are reported through the ISCED system.

CHAPTER 2

Conventions and Decision Rules Employed in the Crosswalk

As discussed in chapter 1, there are some technical problems involved in expressing U.S. education data in terms of ISCED concepts. The problems range from the routine, such as how to describe and present the crosswalk elements in a user-friendly manner, to the conceptually important, such as how to deal with situations in which a defensible decision rule must be imposed. Chapter 2 sets forth the textual conventions used to present the crosswalk and the special decision rules that have had to be developed in order to achieve a workable crosswalk. A discussion of the organization of the crosswalk is also provided.

General Textual Conventions

Arrangement. The arrangement of the rest of this *Guide* follows ISCED level and code order in all chapters and in the appendix.

Code and Title Listings. ISCED and CIP code titles are presented in chapters 3-10. For reasons of space and utility these titles are not repeated in the crosswalk matrix in the appendix. CCD and IPEDS level titles are presented in chapter 1 and are likewise not repeated in the appendix. Users may refer to the appropriate chapter to determine what education programs or levels a particular code represents.

Grammar and Spelling in ISCED Titles. United Nations and OECD conventions, to which the United States is a party, recognize the use of British English as the official version of English used for organization documents. Thus, ISCED code titles use British spelling of certain words and employ British grammatical rules in arranging phrases. To avoid confusing users, this *Guide* faithfully follows the international convention whenever it quotes an ISCED title. To convert ISCED titles to American English would confuse both U.S. and foreign users and result in potential error. In all other situations, this *Guide* uses American English and the style conventions required of official U.S. Department of Education publications.

Identifying Data Productivity in the Crosswalk

The amount of data collected under a specific program code, at a given level, is a piece of information that can be important to users of a database who wish to study or interpret patterns of significant activity. Data collected through CCD on U.S. high school completions, and on enrollments at all grade levels, produce large counts each year due to the numbers of American students enrolled in school. IPEDS education program data, on the other hand, vary in count from year to year and from program to program. Some programs

assigned CIP codes, such as English and general business administration, are popular postsecondary concentrations at nearly all levels and generate large numbers of completions and awards annually. Others, such as professional qualifications in law and medicine, are not offered at all postsecondary levels but generate steady and fairly large completion counts at certain levels. Still other programs, including many technical and academic specializations, generate only small counts and may fluctuate from year to year. This *Guide* attempts to inform users of the most recent data patterns for each CIP code and IPEDS level in order to enhance understanding of U.S. educational activity.

Defining Significant Program Data. NCES periodically updates the CIP system to insure that data are being collected which accurately reflect what is occurring in the U.S. postsecondary universe. Data need to be collected for all programs in which there is enough activity (enrollments and completions) to justify collection efforts, both statistically and economically. The decision rules employed to do this and which are used in this *Guide* to define programs reporting significant activity are:

- *An annual production of at least 10 completions at a specific IPEDS level; and*
- *An annual production distributed over at least three institutions located in at least one state or territory.*

Three other degrees of productivity exist: programs producing *insignificant completion data* in a given year at a given level; programs producing *no completion data* in a given year at a given level, but which are known to be offered by institutions at that level; and programs for which *no data exist* at a given level because no institutions report offering such programs at the level in question.

Identifying Codes Producing Significant Data. Chapters 3-10 discuss each CIP code, at each IPEDS level, that corresponds to a particular ISCED code at each ISCED level. These chapters present a list of all CIP codes corresponding to each ISCED code and level. The CIP codes thus identified are grouped by IPEDS level to enable users of this *Guide* to see patterns in the array of data at each educational level. CIP codes for which significant data are being reported are printed in bold type, thus: **23.0101: English Language and Literature, General**. CIP codes for which insignificant data are being reported are printed in italics, thus: *16.1199: Middle Eastern Languages and Literatures, Other*. In chapters 3-10, CIP codes for which no data are being reported are not listed. Such codes are listed in the appendix, however, for they are necessary components of the master crosswalk used by data coders. Refer to the appendix for lists of these additional CIP codes and below for a discussion of how the master crosswalk is organized. For detailed information on U.S. education program codes and the U.S. coding system, refer to the *Classification of Instructional Programs: 1990 Edition* (Washington: U.S. Government Printing Office, 1991).

Treatment of Specific IPEDS Levels. Certain IPEDS levels that are included in the data system for statistical purposes do not produce much data because the degrees or other awards they represent either do not exist or are rarely earned. These levels include:

- PBC** *Postbaccalaureate Certificate,*
- PMC** *Post-Master's Certificate, and*
- IPC** *First-Professional Certificate (Post-Degree).*

IPEDS level PBC is discussed in chapter 8, while levels PMC and IPC are discussed in chapter 9. In the case of PBC and PMC awards, lists are provided of those few CIP codes for which significant data are reported. Since no IPC awards are known to be offered, and no data are reported, this level is ignored in the chapter 9 data presentations. All three levels are included in the Master Crosswalk for statistical and coding purposes (see appendix).

At the sub-bachelor's degree level the IPEDS data collection system identifies four levels:

- LT1** *Postsecondary Award, Certificate, or Diploma of Less Than One Academic Year,*
- LT2** *Postsecondary Award, Certificate, or Diploma of At Least One but Less Than Two Academic Years,*
- Asc** *Associate's Degree, and*
- LT4** *Postsecondary Award, Certificate, or Diploma of At Least Two but Less Than Four Academic Years.*

Each of these levels reports substantial data and represents a different program level, and each is included in the Master Crosswalk (see appendix). However, these four levels may also be viewed as encompassing two broad levels of education. Short programs leading to no degree or the equivalent, but which may award certificates or diplomas, correspond to both levels LT1 and LT2. Longer programs that lead to an associate's degree or the equivalent correspond to levels Asc and LT4. Because data users may be more interested in these broad educational levels and patterns, and for reasons of space and cost, levels LT1/LT2 and Asc/LT4 are combined and discussed together in chapter 7. In each case, programs reporting significant data at either or both of the combined levels are presented. These levels are treated separately for coding and statistical purposes.

Appendix Conventions

Reading the Crosswalk Appendix. The master crosswalk matrix is presented in the appendix. It is subdivided into eight sections corresponding to each ISCED Level. Each section is organized by the ISCED broad codes contained within it, with the program group codes listed under each broad code in numerical order. The titles of these ISCED codes are not given in the appendix since they have been presented in chapters 3-10 and are known to users familiar with the international system. To the right of each ISCED code, in numerical order, are presented the U.S. program codes corresponding to it. These will be either CCD or CIP codes, depending on the educational level. At the top of each section are listed the CCD or IPEDS level codes corresponding to the ISCED Level indicated.

Users of the appendix are reminded that it contains all potential crosswalkable program codes at all levels, not just those for which data are currently being reported. This approach is required to enable data coders to possess a map of every possible data placement. If U.S. institutions indicate that a specific program is offered at a given level, then a position for any resulting completion data must be assigned. (If no U.S. institutions report offering a program at a particular ISCED level, it is not listed in the appendix at that level.) It would be methodologically improper to introduce bias or otherwise limit the crosswalk based on assumptions about data significance which might vary over time or due to other valid circumstances. Users interested in discovering which ISCED or U.S. programs are actually generating consistently high numbers of completions at different levels are invited to consult the discussions in chapters 3-10.

CIP Codes in the Appendix Followed by an Asterisk (*). CIP codes listed in the crosswalk appendix which have an asterisk (*) located behind them are codes for which NCES is currently collecting significant data. (Refer to the definition of significant data elsewhere in this chapter.)

Use of the Symbol "N/A." Wherever this symbol appears in the crosswalk matrix, it stands for "not applicable," which means that no U.S. data exist which correspond to the ISCED code in question.

ISCED Codes Preceded by a Carrot (>). ISCED codes listed in the crosswalk appendix which are preceded by a carrot (>) are codes which have had to be inserted using ISCED rules in order to report U.S. data corresponding to that code at the level in question. Thus, an ISCED code (less the level number) may have a carrot at some levels but not at others. (Refer to chapters 3-10 for discussions of inserted ISCED codes.)

Decision Rules

Chapter 3 (see below) discusses how the crosswalk's decision rules have been implemented in specific situations. The rules themselves are set forth here.

- *Where ISCED rules and organization are explicit and permit no flexibility, they govern the placement of U.S. codes.* This decision rule is necessary in order to produce data categories that make sense to international users who depend upon ISCED concepts, and it means that several U.S. education program Series must be broken up.
- *Where ISCED rules and organization permit flexibility, U.S. data standards are used.* The designers of ISCED expect that each country that uses it will need to work out compromises between domestic data reporting standards and the ISCED system, and ISCED rules generally allow for such adaptations.
- *Wherever possible, this crosswalk places U.S. data codes consistently across*

ISCED levels. In other words, if a CIP code is placed under ISCED code 14 (teacher education) at one level (such as level 6), it is placed under code 14 at all other levels where data exist (such as level 7 —graduate degrees, in this example).

- *The ISCED rule that permits the insertion of codes at levels other than those provided in the system is invoked wherever necessary in order to report U.S. data in the most accurate and consistent manner.* For example, ISCED has a code for foreign language interpreting at level 5 (corresponding to U.S. community and junior college), but not at level 6 (4-year college) or 7 (graduate school). All reported U.S. degree programs in interpretation and translation are offered at level 6 or 7, not level 5. Using the ISCED code insertion rule, we insert the code for interpreting at the higher levels in order to accurately report U.S. practice.
- *Where the ISCED system is inconsistent in assigning programs to its program groups at different levels, this problem is resolved by interpreting each ISCED program group, across all levels, as corresponding to the sum of all of the programs which are assigned to it at all levels.* The ISCED system contains numerous situations in which the same program group code is assigned to different levels, but the exact title and the contents differ from level to level. An example is ISCED program group code 5002, which ranges from auxiliary health workers at level 3 to public health professionals at level 6. In order to maintain data consistency, cases like this example are dealt with by identifying the common thematic program grouping that cuts across levels. Thus, the example —5002 —is interpreted to mean public/community health programs at various levels.
- *In order to be accurate and consistent, both the crosswalk discussion presented in chapter 3, part 2 and the crosswalk matrix presented in the appendix are keyed to 6-digit CIP codes.* In some cases, however, entire CIP 2- or 4-digit Series may be crosswalked to a given ISCED code. This situation occurs in cases where all the 6-digit CIP codes for a particular Series happen to correspond to the same ISCED Program Group Code at the same ISCED Level.
- *The appendix presents a crosswalk of all CIP codes for which data may be reported under a given ISCED code at a given ISCED level, not merely those currently producing significant data.* This rule must be applied to the master crosswalk matrix in order to permit data coders and statisticians to accommodate all possible data elements and to anticipate data pattern fluctuations.

Crosswalking Data from ISCED to U.S. Systems

In the majority of cases, data presented in an ISCED format may be directly crosswalked into comparable U.S. formats. The major limitation is that it is possible only to crosswalk ISCED data into broad groupings of U.S. grade and degree levels. Program categories, whether based on CCD or CIP, are basically similar with few exceptions. The problems categories are:

- Vocational Home Economics (CIP 20.), split up with certain 6-digit codes assigned to trades and industries and service categories;
- Marketing Operations (CIP 08.), split up among business and service categories;
- Agriculture (CIP 01. and 02.) combined; and
- Trades and Industries (CIP 47., 48., and 49.) and Personal Services (CIP 12.) rearranged to a limited degree (primarily lumping "other" codes together and splitting off individual codes).

Other minor rearrangements occur, such as when ISCED treats as a separate data element what is a single 6-digit CIP code but does not split the code away from the rest of its Series and position it elsewhere.

Collectively, these differences result in a loss of data specificity and, from a U.S. perspective, data quality. They do not render crosswalking from ISCED impossible, however, so long as it is recognized that some data treated in separate detail in the U.S. will be impossible to isolate, and two data categories—vocational home economics and marketing operations—will not be reconstructable at all. In most other cases a crosswalk from ISCED will produce comparable data categories and will thus be usable for purposes of general descriptions and trend analyses. Comparisons of different countries' data, once both are crosswalked into ISCED format, are not affected by these problems as long as each set of data to be compared has been crosswalked according to a similar interpretation of the ISCED system.

CHAPTER 3

Crosswalking ISCED Broad Field Codes

This chapter contains a discussion, in order, of every ISCED broad field code and the U.S. codes that correspond to it. The rationales for each crosswalk decision are explained. Refer to chapters 4-10 for a discussion of each ISCED program group code by level. CIP codes and Series are crosswalked to ISCED codes only when U.S. data for them exist and ISCED provides a place for the data to be reported. This means that while all CIP codes are accounted for somewhere in the crosswalk, they are not all used at each ISCED level.

01. General Programmes

ISCED uses the 01 field to report any data on general or undifferentiated instructional programs at each level. Such data are operationally defined as programs that cannot be located in any specific category, nor be located in the "other" category which is reserved for both specific programs not elsewhere classified and unknowns.

For example, a general or undifferentiated program in art (CIP 50.0701) would not belong in the 01 field, since it is a type of art program; it would be reported under broad field 18, fine and applied arts. Likewise a program in science, technology and society (CIP 30.1501), for which no specific ISCED field assignment exists at any level, would be reported under field 89—other programs, because it is a specific known type of program. A liberal or general studies program (CIP Series 24.01) would be reported under ISCED field 01, however, because no other assignment can be made for it and it specifically refers to general programs of study.

Field 01 is also used to report aggregate data on educational activities that are not defined by program or subject, such as data on enrollments and completions at specific grade levels and degree levels. An example would be all CCD data, since these are not program-specific. CCD data are level-specific, however, and thus aggregate CCD data corresponding to the appropriate ISCED level would be reported for that level under the 01 field code. Likewise, CCD and IPEDS data referring to generic secondary or postsecondary diplomas or certificates would be reported here, since they are not program- or subject-specific.

The 01 field cuts across all ISCED levels and is applicable wherever there is a need to report data on aggregate, general, or generic activity.

08. Literacy Programmes

The ISCED system considers all data on literacy programs, whether for children or adults, as corresponding to primary-level school instruction. ISCED includes what are called functional

literacy programmes — programs intended to provide skills beyond basic reading and writing — under the 08 field. As a consequence of the assumption made by ISCED's designers regarding the education level to which literacy education corresponds, this field code appears only at ISCED Level 1, primary education (U.S. grades 1-6).

In the United States, literacy instruction is not organized in such a way as to provide data only at the equivalent of ISCED Level 1, nor do Americans define the concept of literacy (basic or functional) as something equivalent to a single level of regular schooling. U.S. literacy programs involve both basic education for persons who have never received instruction and remediation for those whose level of education or performance is inadequate. The programs are intended for individuals in either category at all age levels who are outside the regular school system. The programs range from the most basic reading and writing skills to functional and academic literacy skills that are equivalent to senior high school. Since no literacy program completion data are currently collected, however, no crosswalks at levels other than ISCED Level 1 are presented.

14. Teacher Training and Education Science Programmes

Under this field are reported all data, at each appropriate level, on programs in teacher education and the various educational research fields. (Educational administration is reported separately — see broad field 34.)

18. Fine and Applied Arts Programmes

Visual and performing arts programs are included under this field, as are applied/commercial art programs, handicrafts programs, and programs in the administration of the arts. (Arts administration is not included under ISCED broad field 34.)

22. Humanities Programmes

ISCED includes history and archaeology under the humanities, whereas CIP assigns them to the social sciences (Series 45.), while noting that they are not, strictly speaking, social science programs. CIP Series 45. is entitled *Social Sciences and History* in order to make the distinction clear. The U.S. placement of these programs is due to the frequent practice of offering them under the umbrella of the social sciences in U.S. educational institutions. Nevertheless, it is recognized that persons completing history and archaeology programs differ in their approach — as humanists or social scientists. For purposes of international reporting, U.S. data for these programs will be reported under ISCED field 22.

The academic study of religion as a humanistic discipline is not reported under field 22 in ISCED. It is separated from the humanities and combined with programs that prepare clergy and other religious vocations (see field 26 below).

26. Religion and Theology Programmes

As noted under field 22 above, the academic and the professional study of religion are combined in ISCED data reporting. Some countries do not report data on religion programs in such a way as to distinguish preparation for religious careers from other types of religious scholarship, either because the programs are frequently offered within the same faculties or because the presence of an officially recognized faith confuses the provision of creed-specific instruction by religious authorities with other forms of religious study. The United States does separate these two distinct types of religious study. For ISCED reporting purposes, however, data collected via IPEDS and CIP on religion and theology program activity (CIP Series 38.02, 38.99, and 39.) are combined and reported under broad field 26.

30. Social and Behavioural Science Programmes

The ISCED classification of programs under field 30 differs in detail from that used in CIP, but these differences are relatively minor. Criminology, which is classified in the United States as a social science, is reported in ISCED together with the occupational preparation of law enforcement professionals. Urban studies—as opposed to the professional field of urban planning—does not exist in ISCED. For purposes of an ISCED crosswalk, U.S. criminology program data are reported under field 89, urban studies is placed under "other" in field 30, and demography is inserted for ISCED Level 6 as well as for Level 7. Psychology program data are also reported under field 30, as are multidisciplinary behavioral science program data. The latter two program categories are not treated as social sciences in U.S. domestic data reporting. (Psychology and related behavioral science fields include a number of clinical practice specialties. Their research orientations are increasingly experimental and allied to biological and medical studies, and program curricula reflect these differences from the traditional social sciences.)

34. Commercial and Business Administration Programmes

Field 34 includes business administration and administrative services programs of the type reported under CIP Series 52., but also public administration, certain types of institutional administration, and those marketing operations programs (see CIP Series 08. and 52.) which are not specific to product-oriented retailing activity (see field 78 below).

Public administration and related programs—other than social work—are treated as a branch of administration under ISCED, and appropriate U.S. data will be reported under field 34. The ISCED concept of "institutional administration" is defined as including the administration of hospital and health facilities, educational institutions, homes (for the aged, orphans, indigents, etc.), and social service organizations (but not the field of social work). This category may be distinguished from public administration in that it focuses on programs that prepare facilities and services managers rather than government administrators, policy

analysts, or public finance experts. Several U.S. programs offered in widely differing settings must be combined in order to develop a data category corresponding to ISCED's institutional administration subfield.

38. Law and Jurisprudence Programmes

The U.S. system of legal education and its relationship to legal occupations is different from that of nearly every other country. This ISCED field reflects the widespread approach to legal education as a first-degree or undergraduate postsecondary subject and the provision of specific programs for the different occupations within the legal system (judge, magistrate, trial attorney, solicitor, prosecutor, notary, etc.). American legal preparation, in contrast, is at the level of post-bachelor's degree education; it is generic to all types of jobs requiring an attorney qualification and not specific to any of them. The only types of legal education below the graduate level in the United States are undergraduate pre-law school preparatory programs and training programs for paralegals and other support staff. Since ISCED field 38 does not follow the organization of U.S. legal education, it is difficult to place U.S. data accurately into the existing ISCED subfield categories.

To report U.S. data as accurately as possible, a code for "general" law programs must be inserted at level 7 (a general code appears in the basic ISCED system only at level 6). Most of the specific ISCED subfields are ignored, either because they are too narrowly focused on program types that do not exist in the U.S. (such as magistrates and *notaires*) or because they are not disaggregated in U.S. data reporting.

42. Natural Sciences Programmes

Field 42 presents no crosswalk problems. U.S. and ISCED concepts of what constitute the natural sciences are in agreement, comprising the biological and physical science programs. U.S. scientific technology programs (see CIP Series 41.) are reported under ISCED field 52 (see below).

46. Mathematics and Computer Science Programmes

As with field 42, there is also broad agreement between the U.S. and ISCED systems on the contents of this data category. The only difference is that ISCED places actuarial science in mathematics, whereas CIP places it under business. (In the United States this is a technical research specialty that supports businesses which use risk analyses, such as insurance.) For purposes of international reporting, actuarial science data will be reported here.

50. Medical and Health-Related Programmes

As already noted (see field 34, above), the programs dealing with the institutional administration of health facilities are treated as a subfield of business administration in ISCED. Health-related administrative and office support programs, such as those preparing office managers and records specialists, are also reported under field 34 for ISCED reporting purposes. Administrative and supervisory programs that have a clinical care component, however, such as ward clerks and supervisors, are reported under ISCED field 50.

ISCED does not provide a subfield code for reporting medical laboratory technicians. At Level 6 ISCED introduces a program group code for medical technologists that clearly incorporates laboratory medicine. To avoid inconsistent data assignment across levels, and in order to provide a logical place for data on programs that train persons who assist medical technologists and otherwise work in medical laboratories, the Level 6 medical technology code is inserted at other levels.

Other problems in field 50 involve the need to insert various subfield codes at additional levels in order to reflect U.S. educational practice accurately (for example: U.S. medicine degrees are graduate-level awards) and to place certain CIP Series (such as communications disorders, chiropractic, osteopathy, and optometry) in the "other" subfield since ISCED assigns them no code.

Field 50 in ISCED is reserved for human medicine. Veterinary medicine data are classified in ISCED as part of agriculture, and U.S. data for veterinary medicine programs are reported for ISCED purposes under field 62.

52. Trade, Craft, and Industrial Programmes

The placement of trades and industries program data in ISCED does not match U.S. practice. On the one hand, ISCED places some programs in this broad field that CIP places under vocational home economics (Series 20.), chiefly those having to do with commercial clothing and textile worker programs. On the other hand, ISCED places transportation worker programs under broad field 70 and programs in engineering drawing (drafting) under broad field 54, engineering. For these reasons, U.S. trades and industries program data cannot be directly crosswalked to ISCED field 52 but must be split up according to where they are located in the international classification system.

54. Engineering Programmes

This ISCED field encompasses both engineering and engineering-related technologies, as well as drafting programs. There are no problems with crosswalking corresponding U.S. program data, and the mix of program data that results is not really misleading, since ISCED data are divided into levels. The historical difference in program level that divided engineering

technology from engineering has been blurring for some time. Many engineering technology programs are now offered at the 4-year level as knowledge requirements have increased, and vertical articulation of programs is increasingly common (U.S. engineering technology and engineering programs are monitored by the same professional accrediting association). Thus the apparent confusion of program Series data is fairly reflective of current developments in the fields concerned.

58. Architecture and Town Planning Programmes

The European term "town planning" refers to what is known in the United States as urban planning and design. Aside from that minor clarification and the need to insert a "general" code at additional levels, there are no crosswalk problems between this ISCED field and the corresponding U.S. program codes in CIP Series 04. and 30.

62. Agricultural, Forestry, and Fishery Programmes

A major change from U.S. data reporting practice is the reporting of veterinary medicine data under this field rather than under the medical and health field (see 50, above). The data for U.S. commercial fishing programs are also reported here, rather than under the transportation field (CIP Series 49.). Otherwise, the primary difference between this ISCED field and the corresponding CIP Series is that ISCED collapses the detailed U.S. program breakouts into a few codes (seven for agriculture and one each for forestry and fishing). Under forestry, ISCED also places data on programs in wildlife management.

66. Home Economics (Domestic Science) Programmes

The subtitle to this ISCED field reflects the difference between international and U.S. practice, and the underlying conceptual difference in how this field is defined. ISCED defines home economics programs as pertaining to the preparation of skilled homemakers, parents, and consumers, and the study of related research questions. It also incorporates two aspects of vocational home economics: the training of institutional food-service personnel and training for occupations related to child care. All else, if it is occupationally specific or professional, is placed elsewhere in the ISCED system and not regarded as home economics per se. Thus programs related to career preparation in housing and interiors, clothing and textiles, hospitality, professional housekeeping services, and family counseling, all of which are treated to some extent as home economics fields in U.S. practice, are reported by ISCED under other field codes. Some of the data are moved to field 52; others to fields 78 and 89.

70. Transport and Communications Programmes

Field 70's title may be misleading to U.S. users; it really refers only to transportation

programs and related physical logistics subjects (i.e., the term "communications" in this context does not mean mass communications, journalism, or broadcasting —see broad field 84). All the program codes in CIP Series 49. are reported here, except for construction equipment operators and marine mechanics and repairers (reported under broad field 52) and commercial fishing operations (reported under broad field 62). Two ISCED program groups under this broad field, railway communications and postal services, have no U.S. counterparts.

78. Services Trades Programmes

A variety of U.S. program codes are reported under this ISCED field rather than where they are placed in CIP. This broad field encompasses programs in the hospitality field, such as culinary arts, restaurant operations, travel and tourism operations, and professional custodial services; personal services such as cosmetology and funeral services; laundry and drycleaning services; and retail operations in specific product lines and industries. Consequently, a number of programs in CIP Series 08. (marketing operations), 12. (personal services), and 20. (vocational home economics) are reported internationally under ISCED field 78.

84. Programmes in Mass Communications and Documentation

This ISCED broad field is where data on journalism, broadcasting, and other communications programs are reported (CIP Series 09. and 10.); it is also the location of data for library science (CIP Series 25.) and museology/museum studies (CIP code 30.1401). The exception is photographic technology (CIP code 10.0103), which is reported in ISCED under field 18.

89. Other Programmes of Education

ISCED's "other" category is peculiar in that it contains not only the subfield for genuinely unknown or not-elsewhere-classified programs but also a number of precisely identified program areas. The latter includes criminology, law enforcement occupations, military programs, firefighting programs, social work and related services, physical education and recreation, and environmental studies, all of which are assigned subfield codes. U.S. program data corresponding to these identified ISCED subfields are reported here, as are data on U.S. programs which have no other place to be reported. Where necessary, subfield codes in this broad field are inserted at different levels to reflect U.S. practice.

CHAPTER 4

Crosswalking Data at Levels 0 and 1: Education Preceding the First Level and at the First Level

Education in the United States corresponding to ISCED level 0 includes all structured learning experiences prior to the first grade (level 0); for ISCED level 1 it includes grades 1-6. At the preschool level and in the early grades, U.S. curricula and school schedules are not always organized by subject in patterns that resemble the structure of upper elementary, secondary, and postsecondary education. The concept of specialized or subject-specific concentrations are virtually unknown in grades PK-6 in the United States except for the Individual Education Plans prepared for children with special learning needs. The only regularly collected program-related data for these grades are statistics on the number of students enrolled in each specific year and grade. These data are collected annually by the CCD survey system.

0. Education Preceding the First Level

The CCD surveys report data on prekindergarten and kindergarten enrollments which are sometimes referred to as preprimary, preschool, or early childhood education. No specific program types are recognized at this level, which pertains only to preschool programs that prepare children to begin elementary (primary) school.

001. General Programmes for Children of Pre-Primary Age

This broad field code is the only one under ISCED level 0 and the one into which all CCD data pertaining to Level 0 should be crosswalked, or vice versa. The following CCD level codes correspond to ISCED Code 001:

<u>CCD Level</u>	<u>Title/Description</u>
D01	<i>Pre-Kindergarten</i>
D02	<i>Kindergarten</i>

1. Education at the First Level

ISCED level 1 corresponds to U.S. grades 1-6 and also is where data on basic adult literacy programs are assumed to belong under the ISCED system. The ISCED operational definition of this level allows for 1-year variations at each parameter, thus permitting data to be reported for students entering school at ages 5, 6, or 7 and topping out of this level at ages 11, 12, or 13. This flexibility, which is designed to accommodate various national practices, is also convenient in terms of the internal variety of U.S. elementary enrollment patterns.

The CCD does not survey the subject-matter contents or course-taking activity of U.S. elementary school curricula or students. Furthermore, the nature of U.S. elementary education generally precludes the capture of any such data, since no specialization exists at this educational level in the United States. Not until the upper elementary grades (and then only in a few schools, districts, and states) does the curriculum begin to include separate courses that introduce general vocational topics. Actual occupational preparation is not offered in the United States at the elementary school level. No academic specialization exists in grades 1-6 in most U.S. schools.

101. General Elementary Programmes

This broad field code is the place in the ISCED system for reporting data on U.S. regular school enrollments in grades 1-6, according to corresponding CCD codes. No adult literacy data should be reported under this broad field code (see 108, below).

10100. General Elementary Programmes. All CCD elementary school enrollment data for grades 1-6 are reported under this ISCED program field code. ISCED does not break out elementary level data by type of school track (special education, etc.), so all data under CCD code D15 (ungraded education) should also be reported here. The following CCD level codes correspond to ISCED Code 10100:

<u>CCD Level</u>	<u>Title/Description</u>
D03	<i>Grade 1</i>
D04	<i>Grade 2</i>
D05	<i>Grade 3</i>
D06	<i>Grade 4</i>
D07	<i>Grade 5</i>
D08	<i>Grade 6</i>
D15	<i>Ungraded</i>

108. Literacy Programmes

This broad field code is the place to report adult literacy data. Regular elementary education data do not belong here, but rather under 101/10100 above.

ISCED divides literacy program data into two categories, depending on whether the covered subject matter extends beyond the teaching of reading and writing to other knowledge and skills. NCES does not distinguish the types of literacy programs as ISCED does, and literacy program data currently are not collected on a regular basis. Since they would be similar to programs offered in other contexts, U.S. literacy programs that are offered for credit and that also prepare individuals for work would presumably be reported using appropriate occupationally specific CIP codes. Non-credit program data, such as that described in CIP Series 32., Basic Skills, are not regularly collected at present. Nevertheless, any program data on basic literacy that might be reported in some way using CIP Series 32. would belong in this ISCED broad field (10811 would be the most appropriate ISCED program group code for undifferentiated U.S. data as defined in CIP code 32.0108).

10811. Simple Literacy Programmes. Any data collected by NCES would be reported under this ISCED program group code. The following CCD level codes correspond to ISCED Code 10100:

<u>CIP Code</u>	<u>Title/Description</u>
32.0108	<i>Reading, Literacy, and Communication Skills</i>

10821. Functional Literacy Programmes. The United States does not define or collect program data on functional literacy in a way that corresponds to this program group code. No data should be reported here.

Other ISCED Codes at Level 1

Because the CCD does not survey the subject-matter contents of U.S. elementary school curricula, because other periodic surveys do not capture such data frequently enough to justify provision of a crosswalk, and because the concepts of academic or vocational specialization are meaningless at this level, the following ISCED broad fields and program groups are ignored for U.S. crosswalk purposes at ISCED level 1:

126. Religion and Theology Programmes

12600. Religion and Theology Programmes

134. Commercial Programmes

13401. General Commercial Programmes

13411. Specialized Commercial Programmes

150. Elementary Public Health Programmes

15000. Elementary Public Health Programmes

152. Trade, Craft and Industrial Programmes, n.e.c.²²

15201. General Trade and Craft Programmes

15212. Food and Drink Processing Trades Programmes

15216. Building Trades Programmes, n.e.c.

15222. Electrical Trades Programmes

15232. Metal Trades Programmes

15242. Mechanical and Mechanical Repair Trades Programmes

15262. Woodworking Trades Programmes

15272. Leather Trades Programmes

15274. Textile Trades Programmes

15276. Clothing and Related Trades Programmes

15299. Other Trade, Craft and Industrial Programmes, n.e.c.

162. Agricultural, Forestry and Fishery Programmes

16202. Agricultural Programmes

16262. Forestry Programmes

16272. Fishery Programmes

166. Home Economics (Domestic Science) Programmes

16601. General Home Economics Programmes

16604. Home Economics Programmes with Emphasis on Dressmaking and Sewing

**16608. Home Economics Programmes with Emphasis on Cooking, Food Preservation
and Nutrition**

16622. Home Economics Programmes with Emphasis on Child Care

16622. Other Home Economics Programmes

²² The abbreviation "n.e.c." stands for "not elsewhere classified," and appears in ISCED titles for program groups capturing data related to, but not the same as, data placed under other ISCED codes.

178. Service Trades Programmes

17812. Barbering and Beauty Culture Programmes

17822. Hotel and Restaurant Trades Programmes

17842. Laundry and Dry-Cleaning Trades Programmes

17899. Other Service Trades Programmes

189. Other Programmes of Education at the First Level

18900. Other Programmes of Education at the First Level

CHAPTER 5

Crosswalking Data at Level 2: Education at the Second Level, First Stage

U.S. school districts and states do not employ the concept of lower, or first stage, secondary education as it is used in some other countries. Quite a few U.S. jurisdictions do not recognize a separate level of education falling between elementary and secondary education. For those that do, this intermediate level is sometimes regarded as a form or extension of upper elementary education and given names like intermediate school or middle school. In other places, it is regarded as a preliminary or transitional stage of secondary education and given names such as junior high school. The U.S. grade levels which correspond to ISCED level 2 vary. U.S. data reported under the operational definition of level 2 include grades 7-9, a grouping derived from the operational definition of this ISCED level. Users of this crosswalk should be cautioned, however, that U.S. data reported under ISCED level 2 are organized thus for comparative purposes only and do not necessarily correspond to an educational level recognized throughout the United States.

As with elementary education data, there are no routinely collected subject-matter or activity data pertaining to U.S. middle/junior high school curricula. It should also be noted that occupationally oriented vocational programs are not generally offered in the U.S. in the grades corresponding to ISCED level 2. Exploratory home economics and technology education (formerly industrial arts) courses are taught, but these subjects are not designed to offer actual vocational preparation. (Also, individual courses are not equal to an entire school program.) Work eligibility in the United States generally requires at least the completion of compulsory schooling (staying in school until around age 16, depending on the state) since child labor laws and related policies restrict the number of hours per day or week minors may work, what types of jobs they may hold, and specify the amount and kind of on-the-job supervision they require. Most employers of full-time workers and nearly all licensed occupations and trades require at least a high school diploma or the equivalent as an entry-level qualification.

2. Education at the Second Level, First Stage

ISCED level 2 corresponds to U.S. grades 7-9, occasionally referred to in the United States as middle school or junior high school. As with level 1, the ISCED operational definition of this Level allows for age variation at each parameter, thus permitting data to be reported for students entering grade (year) 7 at ages 11 or 12 and topping out of this level at ages 15 or 16.

201. General Programmes Containing Little or No Technical Education

This broad field code is the place in the ISCED system for reporting data on U.S. regular school programs and enrollments in grades 7-9.

20100. General Programmes Containing Little or No Technical Education. Since no program-specific data are collected by CCD, it is appropriate to report all enrollment data for grades 7-9 here. The following CCD level codes correspond to ISCED code 20100:

<u>CCD Level</u>	<u>Title/Description</u>
D09	<i>Grade 7</i>
D10	<i>Grade 8</i>
D11	<i>Grade 9</i>

Other ISCED Codes at Level 2

As with U.S. grades 1-6—corresponding to ISCED level 1—the absence of CCD data collection on course-taking activity, the lack of other regularly collected data of this kind, and the fact that specialization does not occur in the grades corresponding to ISCED level 2 mean that the following ISCED broad fields and program groups are ignored for U.S. crosswalk purposes:

214. Teacher-Training Programmes

21401. General Teacher-Training for Elementary School Teaching

21408. Teacher Training for Specialists Such as Those in Vocational or Adult Education Programmes

226. Religion and Theology Programmes

22600. Religion and Theology Programmes

234. Commercial Programmes

23401. General Commercial Programmes

23404. Typing and Shorthand Programmes

23439. Other Commercial Programmes

250. Health-Related Auxiliary Programmes

- 25002. General Medical Auxiliary Programmes
- 25012. Nursing Programmes
- 25015. Midwifery Programmes
- 25099. Other Health-Related Auxiliary Programmes

252. Trade, Craft and Industrial Programmes, n.e.c.

- 25201. General Programmes with a Trade, Craft or Industrial Emphasis
- 25212. Food and Drink Processing Trades Programmes
- 25216. Building Trades Programmes, n.e.c.
- 25222. Electrical Trades Programmes
- 25232. Metal Trades Programmes
- 25242. Mechanical and Mechanical Repair Trades Programmes
- 25262. Woodworking Trades Programmes
- 25264. Heating, Air Conditioning and Refrigeration Trades Programmes
- 25266. Materials Handling and Earth-Moving Equipment Operating Programmes
- 25272. Leather Trades Programmes
- 25274. Textile Trades Programmes
- 25276. Clothing and Related Trades Programmes
- 25278. Printing and Bookbinding Trades Programmes
- 25282. Laboratory Assistant Programmes
- 25299. Other Trade, Craft and Industrial Programmes, n.e.c.

254. Engineering Programmes

- 25402. Programmes in Surveying
- 25406. Programmes in Engineering Drawing
- 25422. Electrical and Electronics Engineering Technician Programmes
- 25426. Industrial Engineering Technician Programmes
- 25436. Mining Engineering Technician Programmes
- 25452. Agricultural, Forestry and Fishery Engineering Technician Programmes
- 25499. Other Engineering Technician Programmes

262. Agricultural, Forestry and Fishery Programmes

- 26202. General Agricultural Programmes
- 26203. Animal Husbandry Programmes
- 26206. Horticultural and Gardening Programmes
- 26208. Crop Husbandry Programmes
- 26249. Other Programmes in Agriculture

26262. Forestry Programmes
26272. Fishery Programmes

266. Home Economics (Domestic Science) Programmes

26601. General Programmes in Home Economics
26612. Programmes with Emphasis on Nutrition
26622. Programmes with Emphasis on Child Care
26699. Other Home Economics Programmes

270. Transport and Communications Programmes

27004. Seamen's Programmes
27006. Railway Operation Programmes
27008. Road Motor Vehicle Operation Programmes
27026. Postal Services Programmes Except Electronics Equipment Installation and Servicing
27029. Other Communications Programmes

278. Service Trades Programmes

27812. Barbering and Beauty Culture Programmes
27822. Hotel and Restaurant Trades Programmes
27862. Retailing Programmes
27872. Tourist Trades Programmes
27899. Other Service Trades Programmes

289. Other Programmes of Education at the Second Level, First Stage

28900. Other Programmes of Education at the Second Level, First Stage

CHAPTER 6

Crosswalking Data at Level 3: Education at the Second Level, Second Stage

Many of the points referred to in Chapter 5 concerning U.S. lower secondary education or the equivalent also apply to upper secondary education, commonly referred to as senior high school. As with ISCED level 2, many U.S. jurisdictions do not recognize a second stage of secondary education, and thus the division employed in ISCED is an artificial one for them. The jurisdictions which do recognize a junior/senior high school division vary as to the grade at which the senior level commences (sometimes grade 9 and sometimes 10).

Also, as with other grades in the U.S. PK-12 sequence, subject-matter or course-taking activity data are not routinely collected for U.S. senior high school programs.²³ Vocational preparation is offered at this level in those trades and occupations for which a high school diploma is considered adequate preparation under the regulations of a specific state's licensing authorities. High school vocational education also serves to prepare students for postsecondary occupational programs or employer training. It is also possible for high school graduates to have accumulated considerable credit in certain academic subjects (mainly mathematics, science, English, and foreign languages) preparatory to entering undergraduate postsecondary education.

3. Education at the Second Level, Second Stage

ISCED level 3 corresponds to U.S. grades 10-12 based upon the ISCED operational definition for this level. As with levels 1 and 2, the ISCED operational definition of this level allows for age variation at each parameter, thus permitting data to be reported for students entering grade (year) 10 at ages 16 or 17 and topping out of the level at ages 18 or 19.

301. General Programmes Containing Little or No Technical Education

This broad field code is the place in the ISCED system for reporting data on aggregate U.S. senior high school enrollments and completions of high school diploma and certificate programs.

²³ While data on subjects studied at this level are not currently collected, a classification system for U.S. high school subject matter does exist. See Denise Bradby, Karen A. Levesque, Robin R. Henke, and Gerald Malitz, *A Standard National Course Classification System (Draft)*, (Washington: National Center for Education Statistics, January 1993).

30101. General Programmes with No Special Subject Emphasis. Since no program-specific data are collected by CCD, it is appropriate to report here all enrollment data for grades 10-12 and all high school diploma earners. The following CCD level codes correspond to ISCED Code 30101:

<u>CCD Level</u>	<u>Title/Description</u>
D12	<i>Grade 10</i>
D13	<i>Grade 11</i>
D14	<i>Grade 12</i>

As do the following CCD program completion codes:

<u>CCD Code</u>	<u>Title/Description</u>
E01	<i>Regular Diploma</i>
E02	<i>Other Diploma</i>
E03	<i>High School Equivalence Recipients</i>

In addition, this ISCED code is the appropriate place to report any data which may be collected under the following CIP codes:

<u>CIP Code</u>	<u>Title/Description</u>
53.0101	<i>Regular (General) High School Diploma Program</i>
53.0102	<i>College Preparatory High School Diploma Program</i>
53.0103	<i>Vocational High School Diploma Program</i>
53.0104	<i>Honors/Regents High School Diploma Program</i>
53.0199	<i>High School/Secondary Diplomas, Other</i>
53.0201	<i>High School Equivalence Certificate</i>

30104. General Programmes with Special Emphasis on the Humanities and Social Sciences. No regularly collected U.S. data correspond to this program group code.

30108. General Programmes with Special Emphasis on Mathematics and Natural or Applied Science. No regularly collected U.S. data correspond to this program group code.

30199. General Programmes with Special Emphasis on Other Non-Technical Subjects. This program group code is the appropriate place to report enrollment data for U.S. high school programs that do not result in high school diplomas or the equivalent. The following CCD completion codes correspond to ISCED Code 30199:

<u>CCD Code</u>	<u>Title/Description</u>
E04	<i>Other High School Completers</i>

In addition, this ISCED code is the appropriate place to report any data which may be collected under the following CIP codes:

<u>CIP Code</u>	<u>Title/Description</u>
53.0202	<i>High School Certificate of Competence</i>
53.0203	<i>Certificate of IEP Completion</i>
53.0299	<i>High School/Secondary Certificates, Other</i>

Other ISCED Codes at Level 3

While specific vocational subject-matter preparation is recognized at the equivalent of ISCED level 3 in some U.S. jurisdictions, this is not a universal practice and no national data are regularly collected relating to such specializations. Therefore, the following ISCED broad fields and program groups are ignored for U.S. crosswalk purposes:

314. Teacher-Training Programmes

31401. General Teacher-Training Programmes

31408. Teacher Training with Specialization in a Specific Vocational or Practical Subject

31412. Teacher Training for Pre-School and Kindergarten Teachers

31416. Teacher Training for Teachers in Adult Education

31422. Teacher Training for Teachers of Handicapped Children

31499. Other Specialized Teacher Training Programmes

318. Fine and Applied Arts Programmes

31804. Programmes in Drawing and Painting

31812. Programmes in Handicrafts

31822. Programmes in Music

31899. Other Programmes in Fine and Applied Arts

326. Religion and Theology Programmes

32600. Religion and Theology Programmes

334. Commercial Programmes

- 33401. General Commercial Programmes**
- 33404. Shorthand-Typing (Secretarial) Programmes**
- 33408. Clerical-Typist Programmes**
- 33422. Programmes in the Operation of Office Machines**
- 33432. Bookkeeping Programmes**
- 33439. Other Commercial Programmes**

350. Health-Related Auxiliary Programmes

- 35002. General Medical Auxiliary Programmes**
- 35012. Nursing Programmes**
- 35015. Midwifery Programmes**
- 35099. Other Health-Related Auxiliary Programmes**

352. Trade, Craft and Industrial Programmes, n.e.c.

- 35201. General Programmes with a Trade, Craft or Industrial Emphasis**
- 35212. Food and Drink Processing Trades Programmes**
- 35216. Building Trades Programmes, n.e.c.**
- 35222. Electrical Trades Programmes**
- 35232. Metal Trades Programmes**
- 35242. Mechanical and Mechanical Repair Trades Programmes**
- 35262. Woodworking Trades Programmes**
- 35264. Heating, Air Conditioning and Refrigeration Trades Programmes**
- 35266. Materials Handling and Earth-Moving Equipment Operating Programmes**
- 35272. Leather Trades Programmes**
- 35274. Textile Trades Programmes**
- 35276. Clothing and Related Trades Programmes**
- 35278. Printing and Bookbinding Trades Programmes**
- 35282. Laboratory Assistant Programmes**
- 35299. Other Trade, Craft and Industrial Programmes, n.e.c.**

354. Engineering Programmes

- 35402. Programmes in Surveying**
- 35406. Programmes in Engineering Drawing**
- 35422. Electrical and Electronics Engineering Technician Programmes**
- 35426. Industrial Engineering Technician Programmes**
- 35436. Mining Engineering Technician Programmes**

35452. Agricultural, Forestry and Fishery Engineering Technician Programmes
35499. Other Engineering Technician Programmes

362. Agricultural, Forestry and Fishery Programmes

36202. General Agricultural Programmes
36203. Animal Husbandry Programmes
36206. Horticultural and Gardening Programmes
36208. Crop Husbandry Programmes
36249. Other Programmes in Agriculture
36262. Forestry Programmes
36272. Fishery Programmes

366. Home Economics (Domestic Science) Programmes

36601. General Programmes in Home Economics
36612. Programmes with Emphasis on Nutrition
36622. Programmes with Emphasis on Child Care
36699. Other Home Economics Programmes

370. Transport and Communications Programmes

37004. Seamen's Programmes
37006. Railway Operation Programmes
37008. Road Motor Vehicle Operation Programmes
37026. Postal Services Programmes Except Electronics Equipment Installation and Servicing
37029. Other Communications Programmes

378. Service Trades Programmes

37812. Barbering and Beauty Culture Programmes
37822. Hotel and Restaurant Trades Programmes
27862. Retailing Programmes
37872. Tourist Trades Programmes
37899. Other Service Trades Programmes

389. Other Programmes of Education at the Second Level, First Stage

38900. Other Programmes of Education at the Second Level, First Stage

CHAPTER 7

Crosswalking Data at Level 5: Education at the Third Level, First Stage of the Type that Leads to an Award Not Equivalent to a First University Degree

U.S. educational programs become more specialized and differentiated at the initial postsecondary level than at previous levels, particularly in vocational education and training below the bachelor's degree. The U.S. postsecondary levels corresponding to ISCED level 5 include the following IPEDS levels:

- LT1** *Postsecondary Award, Certificate or Diploma of Less Than One Academic Year*
- LT2** *Postsecondary Award, Certificate or Diploma of At Least One but Less Than Two Academic Years*
- Asc** *Associate's Degree*
- LT4** *Postsecondary Award, Certificate or Diploma of At Least Two but Less Than Four Academic Years*

IPEDS levels LT1 and LT2 refer to short training programs which lead to a certificate or diploma of completion, which are frequently terminal and which are increasingly offered by proprietary (for-profit) trade schools as well as by traditional community and junior colleges. LT1 and LT2 are also the levels at which data are reported for short continuing education programs. Continuing education programs are frequently in advanced fields of study which are not otherwise offered at the sub-bachelor's degree level. This chapter discusses LT1 and LT2 data together. If no data are currently reported for one of the combined levels, only the level for which data are reported is listed.

Associate's degree programs and longer 3-year diploma programs (IPEDS levels Asc and LT4) may prepare students to eventually enter bachelor's degree programs at an advanced placement level (usually sophomore or junior standing) or to enter the job market directly. Data reported under levels Asc and LT4 are discussed together. If no data are currently reported for one of the combined levels, only the level for which data are reported is listed.

In several cases, a particular subject field may be offered both in a short (LT1 and/or LT2) and longer (Asc and/or LT4) version, with the choice up to the student and based upon his or her needs and ambitions. States also differ in the level and length of education or training they require of persons seeking to be licensed or promoted in particular occupations, and this variety of requirements is reflected in the large amount of data reported for the same CIP program code at different IPEDS levels.

This crosswalk presents those CIP codes corresponding to ISCED codes for level 5 for which significant recent IPEDS data are being reported.²⁴ Most programs included at level 5 which also appear at higher levels are introductory or general in nature at level 5. Because of articulation and transfer arrangements with 4-year institutions and programs, however, many sub-bachelor's programs carry the title of the more advanced program to which they are linked. The user is advised to be alert to this peculiarity of U.S. practice in order to avoid misinterpretation.

501. General Programmes Containing Little or No Technical Education

50101. General Programmes with No Special Subject Emphasis. This program group code should be inserted at level 5 (it appears at levels 0-3, 6 and 9) to report data accurately on U.S. programs. These programs, at these IPEDS levels, tend to be short enrichment programs without a designated subject concentration or longer programs providing the general studies component of a bachelor's degree preparatory to transfer into a 4-year institution. ISCED Code 50101 corresponds to:

LT1/LT2	24.0101: Liberal Arts and Sciences/Liberal Studies
	24.0102: General Studies
	24.0199: Liberal Arts and Sciences/General Studies and Humanities, Other
Asc/LT4	24.0101: Liberal Arts and Sciences/Liberal Studies
	24.0102: General Studies
	24.0199: Liberal Arts and Sciences/General Studies and Humanities, Other

514. Teacher-Training Programmes

Certified teachers in U.S. schools must, in general, possess at least a bachelor's degree or an equivalent combination of postsecondary education and work experience (if teaching a vocational subject). However, some states permit individuals to be certified for some types of teaching jobs in specific subjects (usually but not always vocational) with an associate's degree or the equivalent. Persons involved in literacy instruction (whether in English or another language) are occasionally qualified at this level, as are teacher's aides and others who assist in conducting learning activities or supervising students (such as day care providers, special education assistants, etc.).

²⁴ "Significant data" means the criteria used for including a CIP code in the 1990 edition. Refer to chapter 2 for an explanation of significance as used in this context.

51401. General Teacher-Training Programmes. This program group code corresponds to data collected on unspecialized programs in education, programs that prepare classroom teaching assistants and aides, and programs that prepare students to transfer into 4-year degree programs in teacher education:

LT1/LT2 **13.0101: Education, General**
 13.1202: Elementary Teacher Education
 13.1205: Secondary Teacher Education
 13.1299: General Teacher Education, Other
 13.1501: Teacher Assistant/Aide

Asc/LT4 **13.0101: Education, General**
 13.1202: Elementary Teacher Education
 13.1203: Junior High/Intermediate/Middle School Teacher Education
 13.1205: Secondary Teacher Education
 13.1206: Teacher Education, Multiple Levels
 13.1299: General Teacher Education, Other
 13.1501: Teacher Assistant/Aide

51404. Teacher-Training Programmes with Specialization in a Non-Vocational Subject. This program group code corresponds to data collected on programs that prepare subject-specific teaching assistants or potential transfers into 4-year degree programs in the academic and other non-vocational teaching specializations:

LT1/LT2 *13.1307: Health Teacher Education*
 13.1314: Physical Education Teaching and Coaching
 13.1321: Computer Teacher Education
 13.1401: Teaching English as a Second Language/Foreign Language

Asc/LT4 **13.1302: Art Teacher Education**
 13.1305: English Teacher Education
 13.1306: Foreign Languages Teacher Education, General
 13.1307: Health Teacher Education
 13.1311: Mathematics Teacher Education
 13.1312: Music Teacher Education
 13.1314: Physical Education Teaching and Coaching
 13.1316: Science Teacher Education, General
 13.1317: Social Science Teacher Education, General
 13.1318: Social Studies Teacher Education
 13.1401: Teaching English as a Second Language/Foreign Language

51408. Teacher-Training Programmes for Teachers of Vocational Subjects. This program group code corresponds to data collected on programs that prepare subject-specific teaching assistants or potential transfers into 4-year degree programs in the vocational and related teaching specializations:

- | | |
|----------------|---|
| LT1/LT2 | 13.1303: Business Teacher Education
<i>13.1309: Technology/Industrial Arts Teacher Education</i>
<i>13.1319: Technical Teacher Education</i>
<i>13.1320: Trade and Industrial Teacher Education</i> |
| Asc | 13.1301: Agricultural Teacher Education
13.1303: Business Teacher Education
13.1308: Home Economics Teacher Education
13.1309: Technology/Industrial Arts Teacher Education
13.1319: Technical Teacher Education
<i>13.1320: Trade and Industrial Teacher Education</i> |

51412. Teacher-Training Programmes for Pre-School and Kindergarten Teachers. This program group code corresponds to data collected on programs preparing teaching assistants or potential 4-year program transfers specializing in prekindergarten (nursery school) and kindergarten instruction and child supervision:

- | | |
|----------------|---|
| LT1/LT2 | 13.1204: Pre-Elementary/Early Childhood/Kindergarten Teacher Education |
| Asc/LT4 | 13.1204: Pre-Elementary/Early Childhood/Kindergarten Teacher Education |

51416. Teacher-Training Programmes for Teachers in Adult Education, n.e.c. This program group code corresponds to data collected on programs preparing teaching assistants, potential 4-year program transfers, or private instructors specializing in adult basic education (literacy, basic skills, and high school equivalency programs):

- | | |
|------------|--|
| Asc | 13.1201: Adult and Continuing Teacher Education |
|------------|--|

51422. Teacher-Training Programmes for Teachers of Handicapped Children. This program group code corresponds to data collected on programs preparing teaching assistants, potential 4-year program transfers, or private instructors specializing in the education of students with handicapping conditions or learning disabilities:

LT1/LT2 **13.1001: Special Education, General**
13.1003: Education of the Deaf and Hearing Impaired
13.1099: Special Education, Other

Asc/LT4 **13.1001: Special Education, General**
13.1003: Education of the Deaf and Hearing Impaired
13.1006: Education of the Mentally Handicapped
13.1008: Education of the Physically Handicapped
13.1099: Special Education, Other

51472. Programmes in Education Science Without Teacher Training. This program group code needs to be inserted at ISCED level 5 in order to report data accurately on occasional U.S. programs that prepare instructional aides who assist curriculum specialists and that provide a general introduction to the origins and aims of the educational profession. ISCED code 51472 corresponds to:

LT1 *13.0301: Curriculum and Instruction*

Asc *13.0901: Social and Philosophical Foundations of Education*

51499. Other Specialized Teacher-Training Programmes. This program group code corresponds to data collected on programs that prepare specialized education assistants, private instructors, or potential 4-year degree transfers whose programs do not fit under other ISCED program group codes in this field at level 5:

LT1/LT2 *13.0201: Bilingual/Bicultural Education*
13.1399: Teacher Education, Specialized Academic and Vocational Programs, Other
13.9999: Education, Other

Asc/LT4 *13.0201: Bilingual/Bicultural Education*
13.1101: Counselor Education/Counseling and Guidance Services
13.1399: Teacher Education, Specialized Academic and Vocational Programs, Other
13.9999: Education, Other

518. Fine and Applied Arts Programmes

U.S. postsecondary programs at this level in the visual and performing arts consist of both academic and professionally oriented offerings. Much of the instructional activity takes place

in community and junior colleges, but a significant amount is located in independent schools (academies, conservatories) specializing in one or more of the arts.

51801. General Programmes of Art Studies. Programs of this type as defined in ISCED are either introductory survey and appreciation programs or professionally oriented programs that are not differentiated by medium or discipline, primarily in the visual and applied arts. This program group code corresponds to:

LT1/LT2 *50.0401: Design and Visual Communications*
 50.0701: Art, General

Asc/LT4 **50.0401: Design and Visual Communications**
 50.0701: Art, General

51802. Programmes in the History and Philosophy of Art. This program group code should be inserted at level 5 (it appears only at level 7) to report data accurately on U.S. associate degree art history and conservation programs. It corresponds to:

LT1 *50.0703: Art History, Criticism, and Conservation*

Asc **50.0703: Art History, Criticism, and Conservation**

51804. Programmes in Drawing and Painting. According to the ISCED definition, this program group code corresponds to data collected on printmaking programs as well as traditional drawing and painting programs at this level:

LT1/LT2 *50.0705: Drawing*
 50.0708: Painting
 50.0710: Printmaking

Asc/LT4 *50.0705: Drawing*
 50.0708: Painting

51808. Programmes in Sculpturing. Insignificant data are currently reported for the programs in sculpture at the sub-bachelor's degree level. This program group code corresponds to:

LT2 *50.0709: Sculpture*

Asc *50.0709: Sculpture*

51812. Programmes in Handicrafts. Insignificant data are currently reported for programs emphasizing the handicrafts and related folk arts at the sub-bachelor's degree level. This program group code corresponds to:

- | | |
|----------------|---|
| LT1/LT2 | 50.0713: Metal and Jewelry Arts |
| Asc | 50.0201: Crafts, Folk Art, and Artisanry
50.0712: Fiber, Textile, and Weaving Arts |

51822. Programmes in Music. This program group code corresponds to data collected on general sub-bachelor's degree music programs and on programs that prepare musical artists and private instructors:

- | | |
|----------------|---|
| LT1/LT2 | 50.0901: Music, General
50.0903: Music —General Performance
50.0999: Music, Other |
| Asc/LT4 | 50.0901: Music, General
50.0903: Music —General Performance
<i>50.0904: Music Theory and Composition</i>
<i>50.0907: Music —Piano and Organ Performance</i>
<i>50.0909: Music Business Management and Merchandising</i>
50.0999: Music, Other |

51832. Programmes in the Drama. This program group code corresponds to data collected on general programs in drama studies and appreciation at the sub-bachelor's degree level, as well as programs preparing performing artists and theatre production personnel:

- | | |
|----------------|--|
| LT1/LT2 | 50.0501: Drama/Theatre Arts, General
<i>50.0502: Technical Theatre/Theatre Design and Stagecraft</i> |
| Asc/LT4 | 50.0501: Drama/Theatre Arts, General
50.0502: Technical Theatre/Theatre Design and Stagecraft
<i>50.0599: Drama/Theatre Arts and Stagecraft, Other</i> |

51842. Programmes in Photography and Cinematography. This program group code corresponds to data collected on sub-bachelor's degree programs that prepare professional photographers; camera and equipment operators and movie set technicians; various types of studio and laboratory assistants; and students desiring a general introduction to the study and appreciation of photography and cinema:

LT1/LT2 **10.0103: Photographic Technology/Technician**
50.0406: Commercial Photography
50.0601: Film/Cinema Studies
50.0602: Film-Video Making/Cinematography and Production
50.0605: Photography
50.0699: Film/Video and Photographic Arts, Other

Asc/LT4 **10.0103: Photographic Technology/Technician**
50.0406: Commercial Photography
50.0601: Film/Cinema Studies
50.0602: Film-Video Making/Cinematography and Production
50.0605: Photography
50.0699: Film/Video and Photographic Arts, Other

51852. Programmes in Interior Design. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on interior design and decoration programs at the sub-bachelor's degree level. It corresponds to:

LT2 **50.0408: Interior Design**

Asc/LT4 **50.0408: Interior Design**

51899. Other Fine and Applied Arts Programmes. This program group code corresponds to data collected on a variety of arts programs which do not correspond to any other ISCED program group code at this level:

LT1/LT2 *50.0101: Visual and Performing Arts*
50.0301: Dance
50.0402: Graphic Design, Commercial Art and Illustration
50.0407: Fashion Design and Illustration
50.0499: Design and Applied Arts, Other
50.0799: Fine Arts and Art Studies, Other
50.9999: Visual and Performing Arts, Other

Asc/LT4 **50.0101: Visual and Performing Arts**
50.0301: Dance
50.0402: Graphic Design, Commercial Art and Illustration
50.0404: Industrial Design
50.0407: Fashion Design and Illustration
50.0499: Design and Applied Arts, Other
50.0704: Arts Management
50.0799: Fine Arts and Art Studies, Other

50.9999: Visual and Performing Arts, Other

522. Humanities Programs

U.S. humanities programs at this level are usually very general survey programs intended either to prepare students for transfer to 4-year programs or to serve as personal enrichment opportunities. While this crosswalk follows ISCED practice, it should be noted that, in the United States, religious studies and art studies programs (art history, music history, drama studies, film studies, general visual/performing arts studies) are considered to be humanities subjects and their program data would be reported domestically in this category.

52201. General Programmes in the Humanities. This program group code should be inserted at level 5 (it appears at level 6) to report data accurately on U.S. general humanities studies programs. It corresponds to:

LT1/LT2 *24.0103: Humanities/Humanistic Studies*

Asc/LT4 **24.0103: Humanities/Humanistic Studies**

52202. Programmes for Interpreters and Translators. The only U.S. data corresponding to this program group code at level 5 are reported for short courses imparting specialized skills. These are reported under:

LT1 *16.0103: Foreign Language Interpretation and Translation*

52208. Other Programmes in Languages, Except the Current or Vernacular Language. This program group code, as defined in ISCED, does not encompass any U.S. language program, except those foreign language programs which are not designated by the name of the language or linguistic group studied, and thus must be reported under a "general" label. The codes corresponding to this concept are:

LT1/LT2 *16.0101: Foreign Languages and Literatures, General*
 16.9999: Foreign Languages and Literatures, Other

Asc/LT4 **16.0101: Foreign Languages and Literatures, General**
 16.9999: Foreign Languages and Literatures, Other

52211. Programs in the Current or Vernacular Language and Its Literature. This program group code corresponds, in U.S. terms, to data collected on various sub-bachelor's programs in English. Most of these programs pertain to the general introductory study of

grammar, literature, and forensics, but one —technical and business writing —may be considered professional preparation depending upon the nature of the program's curriculum, orientation, and focus.

LT1/LT2 *23.0101: English Language and Literature, General*
 23.0401: English Composition
 23.0501: English Creative Writing
 23.0701: American Literature (United States)
 23.0801: English Literature (British and Commonwealth)
 23.1001: Speech and Rhetorical Studies
 23.1101: English Technical and Business Writing
 23.9999: English Language and Literature/Letters, Other

Asc/LT4 **23.0101: English Language and Literature, General**
 23.0401: English Composition
 23.0501: English Creative Writing
 23.0801: English Literature (British and Commonwealth)
 23.1001: Speech and Rhetorical Studies
 23.1101: English Technical and Business Writing
 23.9999: English Language and Literature/Letters, Other

52215. Programmes in Other Living Languages and Their Literature. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately and consistently on U.S. foreign language programs at the sub-bachelor's degree level. Foreign language programs at this level have a variety of purposes, not all of them academic. Some programs, including those awarding associate degrees and longer diplomas or certificates, are designed to introduce students to the study of languages, to help them achieve some degree of comprehension and facility, and to meet foreign language course requirements should they transfer to a bachelor's degree program. Other programs may be intended to provide some memorized conversational ability and cultural appreciation for persons planning to travel abroad, intensive "immersion" programs for persons who need specialized skills, or general introductory courses for persons who have a casual interest in a particular language. Any study of literature and culture at this level is generally in English translation. The program group corresponds to:

LT1/LT2 *16.0301: Chinese Language and Literature*
 16.0302: Japanese Language and Literature
 16.0501: German Language and Literature
 16.0901: French Language and Literature
 16.0902: Italian Language and Literature
 16.0905: Spanish Language and Literature

Asc *16.0302: Japanese Language and Literature*

16.0402: *Russian Language and Literature*
 16.0501: *German Language and Literature*
 16.0599: *Germanic Languages and Literatures, Other*
16.0901: French Language and Literature
 16.0902: *Italian Language and Literature*
16.0905: Spanish Language and Literature
 16.1101: *Arabic Language and Literature*

52221. Programmes in "Dead" Languages and Their Literatures. This program group code should be inserted at level 5 (it appears only at levels 6 and 7) to report data accurately on programs which introduce students to the study of ancient and medieval Greek. Insignificant data are currently reported as follows:

Asc 16.1202: *Greek Language and Literature (Ancient and Medieval)*

52241. Programmes in Comparative Literature. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on programs at this level which introduce students to the comparative study of world literatures in English translation. Insignificant data are currently reported as follows:

LT1 23.0301: *Comparative Literature*

Asc 23.0301: *Comparative Literature*

52251. Programmes in History. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on programs that introduce students to the study of history and prepare them, where desired and feasible, to transfer to 4-year institutions. It corresponds to:

Asc 45.0801: **History, General**

52271. Programmes in Philosophy. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on programs that introduce students to the study of philosophy and prepare them, where desired and feasible, to transfer to 4-year institutions. It corresponds to:

Asc 38.0101: **Philosophy**

52299. Other Humanities Programs. Numerous programs are offered at the sub-bachelor's degree level in the field of Jewish (sometimes called Judaic) studies. This field name is sometimes used to describe a program of religious study and preparation for Jewish community service vocations; at other times it is used to describe a program of cultural studies having no direct religious preparatory function. Since the data do not permit precise identification of the two types of program using this title and because the subject of study in either case is defined as a religious/cultural community, the code is included under the "other" humanities program group listing.

LT2 *05.0205: Jewish/Judaic Studies*

LT4 **05.0205: Jewish/Judaic Studies**

526. Religion and Theology Programmes

Programs in the academic study of religion and preparation for religious vocations are reported separately inside the United States, but are combined here following ISCED practice. Public institutions, such as community and junior colleges, offer only academic programs in religious studies; these are normally classified as a part of the humanities. Private institutions offer both types of programs. Both public and private sub-bachelor's institutions also prepare individuals to enter 4-year programs that either train persons directly for theological vocations or prepare them for graduate-level programs. Degree requirements for theological ordination as a priest, pastor, rabbi, or other clergy vary depending upon the regulations of the faith community in question. The pattern varies from no degree requirement at all to a second degree at the graduate (post-graduate) level. Religious vocations other than ordained clergy (musicians, educators, counselors, lay religious, missionaries, and others) are even less predictable as to educational level.²⁵

²⁵ The pattern of qualification requirements for ordination in the many faith communities which are represented in the United States is as diverse and complex as that of the patterns of PK-12 educational organization from state to state. Data for theological programs have customarily been collected for three categories of faith community: the so-called "mainline" communities; the "evangelical" communities; and "other" communities. Mainline communities are generally considered to comprise the Roman Catholic Church; the various Eastern Orthodox churches; the ecumenical and liturgical Protestant churches; and the Reformed, Conservative, and Orthodox Jewish communities. These communities all require advanced educational preparation for their clergy and rabbis as well as for most other vocations. The evangelical communities comprise a collection of Christian churches adhering to various messianic, pentacostal, apocalyptic, and fundamentalist doctrines. They do not always require advanced educations of their clergy since many accept a literal interpretation of the concept of "the priesthood of all believers." A great diversity of other groups exist, both non-Christian and Christian, but they are often lumped together statistically because they together total a minority of the religious population. Their requirements for clergy education vary tremendously, from no requirements (or no clergy) to extensive preparatory education. The best source for data on American religious communities is Constant E. Jacquet, ed., *Yearbook of American and Canadian Churches*, (New York: National Council of the Churches of Christ in the U.S.A., annual).

No public educational institutions at any level offer direct preparation for religious vocations, nor are the requirements for entry into these vocations (clergy or otherwise) regulated by federal, state, or local education authorities. Clergy are

52600. Religion and Theology Programmes. This program group code corresponds to data collected on sub-bachelor's degree religious studies programs and on programs preparing students for a variety of religious vocations:

LT1/LT2 *38.0201: Religion/Religious Studies*
38.9999: Philosophy and Religion
39.0201: Bible/Biblical Studies
39.0301: Missions/Missionary Studies and Missiology
39.0401: Religious Education
39.0501: Religious/Sacred Music
39.0601: Theology/Theological Studies
39.9999: Theological Studies and Religious Vocations,
 Other

Asc/LT4 **38.0201: Religion/Religious Studies**
38.9999: Philosophy and Religion
39.0101: Biblical and Other Theological Languages and
 Literatures
39.0201: Bible/Biblical Studies
39.0301: Missions/Missionary Studies and Missiology
39.0401: Religious Education
39.0501: Religious/Sacred Music
39.0601: Theology/Theological Studies
39.0604: Pre-Theological/Pre-Ministerial Studies
39.0699: Theological and Ministerial Studies, Other
39.0701: Pastoral Counseling and Specialized Ministries
39.9999: Theological Studies and Religious Vocations,
 Other

530. Social and Behavioural Science Programmes

The observations made about humanities programs at the U.S. equivalent of ISCED level 5 (see 522, above) also apply to social sciences programs. In addition, some sub-bachelor's social science programs are oriented toward work applications and are meant to assist students in their career development.

required to obtain a license in order to perform legally valid marriages (in the United States they can perform this service), to perform certain types of clinical counseling, and to serve in some public positions (such as military and hospital chaplains). The U.S. Constitution—which is binding on all levels of government in the United States—prohibits the public establishment of a state religion or even the appearance thereof, a legal fact interpreted as preventing the regulation of religion and the use of public funds to support religious activities, including religious education.

53001. General Programmes in the Social and Behavioural Sciences. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on general social sciences programs, as well as those not designated by the name of the field studied, at the sub-bachelor's degree level. It corresponds to:

LT2 *45.0101: Social Sciences, General*
Asc **45.0101: Social Sciences, General**

53012. Programmes in Economics. This program group code corresponds to data reported on sub-bachelor's degree programs in economics. Such programs are generally found at the associate degree level and prepare students to apply economics principles in work-related settings or continue their studies at the bachelor's degree level.

Asc **45.0601: Economics, General**

53022. Programmes in Political Science. This program group code, as defined in ISCED, corresponds to data reported on sub-bachelor's degree programs in international relations and political science. Such programs are generally found at the associate degree level and provide an introduction to world affairs and government, as well as preparing students to continue their studies at the bachelor's degree level.

Asc/LT4 *45.0901: International Relations and Affairs*
 45.1001: Political Science, General

53032. Programmes in Sociology. This program group code corresponds to data reported on sub-bachelor's degree programs in sociology. Such programs are generally found at the associate degree level. They provide an introduction to social relations and prepare students for continued study at the bachelor's degree level.

LT1 *45.1101: Sociology*
Asc/LT4 **45.1101: Sociology**

53042. Anthropology Programmes. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on U.S. anthropology programs. Anthropology programs at this level provide an introduction to human development and cultural patterns and prepare students for continued study at the bachelor's degree level.

LT1/LT2 *45.0201: Anthropology*

Asc

45.0201: Anthropology

53052. Programmes in Psychology. Psychology programs at the sub-bachelor's level prepare students to work in a variety of setting requiring some knowledge of applied psychology, to serve as assistants to clinicians and researchers, to continue their studies at the bachelor's degree level, or to acquire a general introduction to the subject. To be certified as a clinical practitioner or researcher generally requires at least a master's degree in the appropriate subfield of the discipline. This program group code corresponds to:

LT1/LT2 *42.0401: Community Psychology*
 42.0101: Psychology, General
 42.0601: Counseling Psychology
 42.0901: Industrial and Organizational Psychology
 42.9999: Psychology, Other

Asc/LT4 **42.0101: Psychology, General**
 42.0201: Clinical Psychology
 42.0401: Community Psychology
 42.0601: Counseling Psychology
 42.0701: Developmental and Child Psychology
 42.0901: Industrial and Organizational Psychology
 42.1601: Social Psychology
 42.9999: Psychology, Other

53062. Geography Programmes. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on U.S. geography programs. Such programs are generally found at the associate degree level and provide an introduction to geographic principles. They also prepare students for continued study at the bachelor's degree level.

Asc

45.0701: Geography

53072. Studies of Regional Cultures. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on U.S. area studies programs. Area studies at the sub-bachelor's degree level constitute general introductions to the societies and problems of particular world regions, and may be terminal programs or prepare students to continue such studies at the bachelor's degree level. ISCED code 53072 corresponds to:

LT1/LT2 *05.0101: African Studies*
 05.0102: American Studies/Civilization
 05.0103: Asian Studies

05.0107: *Latin American Studies*
 05.0108: *Middle Eastern Studies*
 05.0110: *Russian and Slavic Area Studies*
 05.0114: *Western European Studies*

Asc 05.0102: *American Studies/Civilization*
 05.0199: *Area Studies, Other*

53099. Other Programmes in Social and Behavioural Science. U.S. institutions offer other focused study programs similar to area studies but dealing with minority group issues, urban issues, and issues pertaining to women. Like area studies, these fields at the sub-bachelor's degree level constitute general introductions to the subjects they address and may be terminal programs or prepare students to continue such studies at the bachelor's degree level. ISCED code 53099 corresponds to:

LT1/LT2 05.0201: *Afro-American (Black) Studies*
 05.0202: *American Indian/Native American Studies*
 05.0207: *Women's Studies*
 05.0299: *Ethnic and Cultural Studies, Other*
 45.1201: *Urban Affairs/Studies*
 45.9999: Social Sciences and History, Other

Asc/LT4 05.0201: *Afro-American (Black) Studies*
 05.0202: *American Indian/Native American Studies*
 05.0203: *Hispanic-American Studies*
 05.0207: *Women's Studies*
 05.0299: *Ethnic and Cultural Studies, Other*
 05.9999: *Area, Ethnic, and Cultural Studies, Other*
 45.0501: *Demography/Population Studies*
 45.1201: Urban Affairs/Studies
 45.9999: Social Sciences and History, Other

534. Commercial and Business Administration Programmes

This ISCED broad field is the appropriate place to report data on program completions at the sub-bachelor's degree level in business-related fields as well (as defined in ISCED) as public administration and administrative services related to schools, health care, and non-profit organizations. Some marketing operations program data (CIP Series 08.) are also reported here, specifically those data relating to general retailing and wholesaling services. The remainder of Series 08. codes pertaining to the retailing and selling of specific products are crosswalked to ISCED broad field 78, service trades.

53401. General Commercial Programmes. General business programs at this level provide either an introduction to business administration or constitute business programs that do not have titles indicating a specialty. This program group code corresponds to:

- | | |
|----------------|--|
| LT1/LT2 | 52.0101: Business, General
52.0201: Business Administration and Management, General |
| Asc/LT4 | 52.0101: Business, General
52.0201: Business Administration and Management, General |

53404. Secretarial Programmes. Programs in the administrative office support area range from short training courses intended to provide basic skills or upgrade existing skills to full degree programs that prepare professional secretaries and executive assistants. This program group code corresponds to data collected via the following CIP codes:

- | | |
|----------------|--|
| LT1/LT2 | 52.0401: Administrative Assistant/Secretarial Science, General
52.0402: Executive Assistant/Secretary
52.0403: Legal Administrative Assistant/Secretary
52.0404: Medical Administrative Assistant/Secretary
52.0405: Court Reporter
52.0406: Receptionist
52.0499: Administrative and Secretarial Services, Other |
| Asc/LT4 | 52.0401: Administrative Assistant/Secretarial Science, General
52.0402: Executive Assistant/Secretary
52.0403: Legal Administrative Assistant/Secretary
52.0404: Medical Administrative Assistant/Secretary
52.0405: Court Reporter
52.0406: Receptionist
52.0499: Administrative and Secretarial Services, Other |

53408. Clerical-Typists Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. clerical and general office programs. It corresponds to data collected via the following CIP code:

- | | |
|----------------|---|
| LT1/LT2 | 52.0408: General Office/Clerical and Typing Services |
| Asc/LT4 | 52.0408: General Office/Clerical and Typing Services |

53422. Programmes in Business Machine Operation, Except Electronic Data Processing. This program group code does not correspond to any specific program for which U.S. data

are reported. In the United States the operation of office equipment is done by general office workers, secretaries, or anyone with a need to use it and the knowledge to do so. Specific operational supervision and maintenance of equipment is carried out by special personnel (refer to ISCED program groups 53426 and 55222). Furthermore, the automation of business offices has reduced or eliminated the presence of non-computer equipment (mechanical typewriters, mimeographs, and others) and the need to train personnel in their use.

53426. Programmes in Electronic Data Processing. Electronic data processing actually includes a wider variety of programs than the title suggests, ranging from word processing and data entry to the management of business computer facilities and the planning and design of business-specific computer applications (software and hardware). This program group code, as defined in ISCED, corresponds to:

- | | |
|----------------|---|
| LT1/LT2 | 52.0407: Information Processing/Data Entry Technician
52.1201: Management Information Systems and Business Data Processing, General
52.1202: Business Computer Programming/Programmer
52.1203: Business Systems Analysis and Design
52.1205: Business Computer Facilities Operator
52.1299: Business Information and Data Processing Services, Other |
| Asc/LT4 | 52.0407: Information Processing/Data Entry Technician
52.1201: Management Information Systems and Business Data Processing, General
52.1202: Business Computer Programming/Programmer
52.1203: Business Systems Analysis and Design
52.1205: Business Computer Facilities Operator
52.1299: Business Information and Data Processing Services, Other |

53432. Accountancy Programmes. Professional accountants in the United States must possess at least a bachelor's degree in the subject. At the sub-bachelor's degree level accounting programs either prepare bookkeepers (now called accounting technicians) and other assistants to accountants and auditors or provide the basic coursework for students who plan to go on to earn bachelor's degrees. This program group code corresponds to:

- | | |
|----------------|--|
| LT1/LT2 | 52.0301: Accounting
52.0302: Accounting Technician
52.0399: Accounting, Other |
|----------------|--|

Asc/LT4 52.0301: Accounting
 52.0302: Accounting Technician
 52.0399: Accounting, Other

53434. Business Administration, Marketing and Sales Programmes. This program group code as defined in ISCED corresponds to the CIP marketing operations (Series 08.) codes that prepare students in general retailing and wholesaling skills, as well as programs in business marketing that are offered at the sub-bachelor's degree level. ISCED code 53434 includes:

LT1/LT2 08.0701: Auctioneering
 08.0704: General Buying Operations
 08.0705: General Retailing Operations
 08.0706: General Selling Skills and Sales Operations
 08.0708: General Marketing Operations
 08.0709: General Distribution Operations
 08.0799: General Retailing and Wholesaling Operations
 and Skills, Other
 09.0201: Advertising
 52.1401: Business Marketing and Marketing Management, General
 52.1499: *Marketing Management and Research, Other*

Asc/LT4 08.0704: General Buying Operations
 08.0705: General Retailing Operations
 08.0706: General Selling Skills and Sales Operations
 08.0708: General Marketing Operations
 08.0709: General Distribution Operations
 08.0799: General Retailing and Wholesaling Operations
 and Skills, Other
 09.0201: Advertising
 52.1401: Business Marketing and Marketing Management, General
 52.1499: *International Business Marketing*
 52.1499: Marketing Management and Research, Other

53436. Programmes in Financial Management and Investment Analysis. This program group code as defined in ISCED corresponds at this level to U.S. programs that prepare support personnel for the financial services industries, including bank tellers and assistants for loan, insurance, investment, tax preparation, and other operations. Such programs may also prepare students to continue their education at the bachelor's degree level. ISCED code 53436 includes:

LT1/LT2 52.0801: Finance, General

52.0803: Banking and Financial Support Services
52.0805: Insurance and Risk Management
52.0807: Investments and Securities
52.1601: Taxation

Asc/LT4 **52.0801: Finance, General**
52.0803: Banking and Financial Support Services
52.0805: Insurance and Risk Management
52.0807: Investments and Securities
52.0899: Financial Management and Services, Other

53439. Other Commercial and Business Programmes. A great many business administration specialties are not assigned separate categories in ISCED. Data reported on these programs needs to be assigned to the "other" program group. As with other business programs, offerings at level 5 either prepare entry-level assistants and support personnel or provide the necessary basic education to permit continued study at the bachelor's degree level. This program group code, as defined in ISCED, corresponds to:

LT1/LT2 **08.0301: Entrepreneurship**
52.0202: Purchasing, Procurement and Contracts Management
52.0203: Logistics and Materials Management
52.0204: Office Supervision and Management
52.0205: Operations Management and Supervision
52.0299: Business Administration and Management, Other
52.0601: Business/Managerial Economics
52.0701: Enterprise Management and Operation, General
52.0901: Hospitality Administration/Management
52.0902: Hotel/Motel and Restaurant Management
52.0903: Travel and Tourism Management
52.0999: Hospitality Services Management, Other
52.1001: Human Resources Management
52.1002: Labor/Personnel Relations and Studies
52.1101: International Business
52.1301: Management Science
52.1399: Business Quantitative Methods and Management
Science, Other
52.1501: Real Estate
52.9999: Business Management and Administrative Services,
Other

Asc/LT4 **08.0301: Entrepreneurship**
52.0202: Purchasing, Procurement and Contracts Management
52.0203: Logistics and Materials Management

52.0204: Office Supervision and Management
52.0205: Operations Management and Supervision
52.0299: Business Administration and Management, Other
52.0601: Business/Managerial Economics
52.0701: Enterprise Management and Operation, General
52.0799: Enterprise Management and Operation, Other
52.0901: Hospitality Administration/Management
52.0902: Hotel/Motel and Restaurant Management
52.0903: Travel and Tourism Management
52.0999: Hospitality Services Management, Other
52.1001: Human Resources Management
52.1002: Labor/Personnel Relations and Studies
52.1003: Organizational Behavior Studies
52.1099: Human Resources Management, Other
52.1101: International Business
52.1301: Management Science
52.1399: Business Quantitative Methods and Management
Science, Other
52.1501: Real Estate
52.9999: Business Management and Administrative Services,
Other

53452. Programmes in Public Administration. This program group code as defined in ISCED corresponds to data reported for U.S. programs preparing students as support personnel for government offices (local, state, and federal); to continue public administration studies at the bachelor's degree level; and to obtain a basic introduction to the workings of government. It should be noted that public administration is as much an academic as a professional field in the United States. Public-sector workers and managers are not required to specialize in public administration and frequently do not. (They are usually educated in a field related to what they are hired to do, such as law, accounting, management, health care, a research specialty, or other qualification.) Public administration is often treated, in the United States, as a branch of political science and programs in it are frequently offered by faculty in the latter discipline. ISCED code 53452 includes:

LT1/LT2	<i>44.0401: Public Administration</i> 44.9999: Public Administration and Services, Other
Asc/LT4	44.0401: Public Administration <i>44.0501: Public Policy Analysis</i> 44.9999: Public Administration and Services, Other

53462. Programmes in Institutional Administration. This program group code does not

correspond to the way that U.S. programs in education, health care, and non-profit organization administration are treated. In U.S. data reporting, programs in the administration of these activities are included under the subject categories rather than as a separate heading under business administration. The administrative programs cited in the definition of this program group are reported here in order to accommodate the ISCED system. Educational administration below the bachelor's degree level involves only the training of support personnel, as does health care administration. ISCED code 53462 includes:

LT1/LT2 *13.0405: Elementary, Middle and Secondary Education Administration*
51.0701: Health System/Health Services Administration
51.0705: Medical Office Management
51.0706: Medical Records Administration
51.0707: Medical Records Technology/Technician
51.0708: Medical Transcription
51.0799: Health and Medical Administrative Services, Other

Asc/LT4 *13.0405: Elementary, Middle and Secondary Education Administration*
51.0701: Health System/Health Services Administration
51.0702: Hospital/Health Facilities Administration
51.0705: Medical Office Management
51.0706: Medical Records Administration
51.0707: Medical Records Technology/Technician
51.0799: Health and Medical Administrative Services, Other

538. Law and Jurisprudence Programmes

ISCED defines this broad field as pertaining to the training of magistrates, a type of instructional program that is not offered in U.S. institutions as a credit program, nor does the term magistrate as used in American law and the U.S. judicial system correspond to what is referred to in the only ISCED code established at this level. Despite this difference, law-related instructional programs are offered in the U.S. at this level, mainly paralegal training and pre-law studies. To accommodate these programs it is necessary to insert appropriate codes.

53800. Programmes for Local Magistrates. No U.S. data corresponding to this ISCED code exist.

53801. General Programmes in Law. This program group code should be inserted at level 5 (it appears only at level 6) to report data accurately on U.S. sub-bachelor's degree programs that prepare legal assistants (also called paralegals) or provide the first year or two of pre-law studies for students planning to enter professional legal studies. It corresponds to:

LT1/LT2 *22.0102: Pre-Law Studies*
22.0103: Paralegal/Legal Assistant

Asc/LT4 **22.0102: Pre-Law Studies**
22.0103: Paralegal/Legal Assistant

53899. Other Law and Jurisprudence Programmes. This program group code should be inserted at level 5 (it appears only at level 7) to report data accurately on U.S. sub-bachelor's degree programs in legal studies not elsewhere classified. It corresponds to:

LT1/LT2 **22.0199: Law and Legal Studies, Other**

Asc/LT4 **22.0199: Law and Legal Studies, Other**

542. Natural Science Programmes

This ISCED broad field describes both biological and physical sciences programs at the less-than-4-year level.

54202. Biological Science Programmes. This program group code as defined in ISCED corresponds to data reported on the entire range of biological science programs, which is an extensive and growing list. At the sub-bachelor's degree level the main program offerings are in general biology at the associate degree level, although some of the more specialized titles occasionally appear. These programs either prepare biological laboratory or research assistants or prepare students to continue their studies at the bachelor's degree level. ISCED code 54202 includes:

LT1/LT2 *26.0101: Biology, General*
26.0501: Microbiology/Bacteriology
26.0699: Miscellaneous Biological Specializations, Other
26.0702: Entomology

Asc/LT4 **26.0101: Biology, General**
26.0202: Biochemistry
26.0301: Botany, General
26.0501: Microbiology/Bacteriology
26.0601: Anatomy
26.0603: Ecology
26.0607: Marine/Aquatic Biology
26.0609: Nutritional Sciences
26.0612: Toxicology
26.0699: Miscellaneous Biological Specializations, Other

26.0701: *Zoology, General*
 26.0706: *Physiology, Human and Animal*
26.9999: Biological Sciences/Life Sciences, Other

54212. Chemistry Programmes. Chemistry programs at this educational level are mainly general chemistry offerings at the associate degree level. These programs either prepare chemical laboratory or research assistants or prepare students to continue their studies at the bachelor's degree level. ISCED code 54212 includes:

LT2 *40.0501: Chemistry, General*

Asc **40.0501: Chemistry, General**
 40.0503: Inorganic Chemistry
 40.0599: Chemistry, Other

54222. Geological Science Programmes. Geological science programs at this educational level consist of general geology offerings at the associate degree level plus shorter programs training field assistants and short topical programs of interest to casual students. Students also complete programs at this level preparatory to continuing their studies at the bachelor's degree level. ISCED code 54222 includes:

LT1/LT2 *40.0601: Geology*
 40.0603: Geophysics and Seismology
 40.0604: Paleontology

Asc **40.0601: Geology**

54232. Physics Programmes. Physics programs at this educational level are mainly general physics offerings at the associate degree level. These programs either prepare physics laboratory or research assistants or prepare students to continue their studies at the bachelor's degree level. ISCED code 54232 includes:

LT2 *40.0801: Physics, General*

Asc **40.0801: Physics, General**
 40.0899: Physics, Other

54262. Oceanography Programmes. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on U.S. oceanography programs. Oceanography programs at this educational level provide a topical introduction for casual

students, prepare oceanographic research assistants (including crew for research expeditions), and prepare students to continue their studies at the bachelor's degree level. ISCED code 54262 includes:

LT1	<i>40.0702: Oceanography</i>
Asc	40.0702: Oceanography

54299. Other Natural Science Programmes. General programs in the physical sciences emphasizing no specific discipline, multidisciplinary programs, and a few specific programs in other science fields are offered at this level in the United States. This program group code as defined in ISCED corresponds to:

LT2	<i>30.0101: Biological and Physical Sciences</i>
	<i>30.0601: Systems Science and Theory</i>
	<i>40.0101: Physical Sciences, General</i>
	<i>40.0701: Metallurgy</i>
	<i>40.0799: Miscellaneous Physical Sciences, Other</i>
Asc	30.0101: Biological and Physical Sciences
	40.0101: Physical Sciences, General
	<i>40.0701: Metallurgy</i>
	<i>40.0799: Miscellaneous Physical Sciences, Other</i>
	40.9999: Physical Sciences, Other

546. Mathematics and Computer Science Programmes

Data on both of these program Series are combined in this ISCED broad field, although they are reported separately within the United States.

54601. General Programmes in Mathematics. This program group code as defined in ISCED corresponds to sub-bachelor's degree programs in mathematics which provide work-related skills, personal enrichment, or preparation for transfer to bachelor's degree programs in mathematics or a related field. ISCED code 54601 includes:

LT1/LT2	27.0101: Mathematics
Asc/LT4	27.0101: Mathematics

54611. Programmes in Statistics. Statistics programs at the sub-bachelor's degree level are currently reported only at the less-than-1-year level and indicate short work-related or

personal enrichment offerings. ISCED code 54601 includes:

LT1 *27.0501: Mathematical Statistics*

54621. Programmes in Actuarial Science. Actuarial science programs at the sub-bachelor's degree level are reported only at the less-than-2-year level and indicate short work-related offerings. ISCED code 54601 includes:

LT2 *52.0802: Actuarial Science*

54639. Other Programmes in Applied Mathematics. Some other mathematics programs are reported at the sub-bachelor's degree level, primarily as associate degree completions. ISCED code 54639, as defined, includes:

LT1 *27.0301: Applied Mathematics, General*

Asc *27.0301: Applied Mathematics, General*
27.9999: Mathematics, Other
30.0801: Mathematics and Computer Science

54641. Programmes in Computer Science. This program group code as defined in ISCED corresponds to programs that provide a general introduction to computers and related sciences and which prepare students either for entry-level occupations in the computer field or for further studies at the bachelor's degree level. ISCED code 54641 includes:

LT1/LT2 **11.0101: Computer and Information Sciences, General**
11.0201: Computer Programming
11.0301: Data Processing Technology/Technician
11.0401: Information Sciences and Systems
11.0701: Computer Science
11.9999: Computer and Information Sciences, Other

Asc/LT4 **11.0101: Computer and Information Sciences, General**
11.0201: Computer Programming
11.0301: Data Processing Technology/Technician
11.0401: Information Sciences and Systems
11.0501: Computer Systems Analysis
11.0701: Computer Science
11.9999: Computer and Information Sciences, Other

550. Medical Diagnostic and Treatment Programmes

The following listing corresponds to those U.S. program codes in these categories for which data at this level are reported. As with law, ISCED assumptions about health professions training do not correspond to domestic U.S. practice. Virtually all U.S. health occupations training is postsecondary, not secondary. Also the increased reliance on high-tech equipment and an increased reliance on allied health professionals instead of nurses and physicians has resulted in a gradual increase in the level of education required for licensure in these occupational fields. Because these fields, and the educational qualifications deemed necessary for them, are in flux there are variations in how state licensing authorities, professional associations, and institutions approach the matter of program content and level. Many health care programs are now offered, and completed, at both ISCED levels 5 and 6, as well as at level 7. These facts have required an examination of ISCED health and medical codes across all postsecondary levels (5-7) in order to determine where specific U.S. programs should be reported.

55002. Public Health Inspection Programmes. Public health in the United States is a professional field requiring education at the bachelor's degree level and, most often, beyond. At the sub-bachelor's degree level there is no reported program activity except for the training of persons who serve in various roles in local health systems, generally as organizers of volunteers, liaisons with health authorities and facilities (often for minority and non-English-speaking communities), and as community services staff. Thus ISCED code 55002 includes only:

LT1/LT2 51.0301: Community Health Liason

Asc 51.0301: Community Health Liason

55006. Programmes in Medical and Surgical Assisting. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data accurately on U.S. medical assistant and pre-medicine programs. Such programs, at this level, are intended to either prepare assistants to physicians and surgeons or to provide the first 2 years or so of preparatory studies prior to entering medical school (a full bachelor's degree or the equivalent must be completed prior to enrollment). ISCED code 55006 corresponds to:

LT1/LT2 51.0807: Physician Assistant

**Asc/LT4 51.0807: Physician Assistant
 51.1102: Pre-Medicine Studies**

55008. Physiotherapy and Occupational Therapy Programmes. This program group code is interpreted to include all therapeutic and rehabilitation programs (despite its title), as they

form a coherent group of related fields, and there is no other appropriate place to report them together in ISCED. Therapeutic and rehabilitation programs preparing entry-level personnel are offered at both the sub-bachelor's and bachelor's degree levels. As defined, ISCED code 55008 corresponds to:

LT1/LT2 *51.0803: Occupational Therapy Assistant*
 51.0806: Physical Therapy Assistant
 51.2301: Art Therapy
 51.2305: Music Therapy
 51.2306: Occupational Therapy
 51.2307: Orthotics/Prosthetics
 51.2308: Physical Therapy
 51.2309: Recreational Therapy
 51.2310: Vocational Rehabilitation Counseling
 51.2399: Rehabilitation/Therapeutic Services, Other

Asc/LT4 **51.0803: Occupational Therapy Assistant**
 51.0806: Physical Therapy Assistant
 51.2301: Art Therapy
 51.2306: Occupational Therapy
 51.2307: Orthotics/Prosthetics
 51.2308: Physical Therapy
 51.2309: Recreational Therapy
 51.2310: Vocational Rehabilitation Counseling
 51.2399: Rehabilitation/Therapeutic Services, Other

55012. Nursing Programmes. U.S. nursing programs at the sub-bachelor's degree level consist of three types: programs training registered nurses (fully licensed professional practitioners), programs training practical nurses (general care workers with limited licenses), and programs training nursing assistants and aides. Registered nurses are also trained in bachelor's degree programs; the professional curricula for both levels is the same but the ancillary "liberal arts" general subjects are only required at the bachelor's level. An ongoing debate exists as to which approach is better. Short programs in the advanced nursing specialities, which are occasionally reported, are not full training programs but rather similarly titled programs training specialized assistants or providing professional refresher training. ISCED code 55012 corresponds to:

LT1/LT2 **51.1601: Nursing (R.N. Training)**
 51.1602: Nursing Administration
 51.1604: Nursing Anesthetist
 51.1612: Nursing, Surgical
 51.1613: Practical Nurse (L.P.N. Training)
 51.1614: Nursing Assistant/Aide

51.1615: Home Health Aide

51.1699: Nursing, Other

Asc/LT4

51.1601: Nursing (R.N. Training)

51.1602: Nursing Administration

51.1604: Nursing Anesthetist

51.1608: Nursing Science

51.1612: Nursing, Surgical

51.1613: Practical Nurse (L.P.N. Training)

51.1614: Nursing Assistant/Aide

51.1615: Home Health Aide

51.1699: Nursing, Other

55015. Midwifery Programmes. This program group code corresponds to U.S. data for programs preparing nurse-midwives, including:

LT4

51.1607: Nursing Midwifery

55017. Programmes in Medical X-Ray Techniques. Radiologic technology, as this program is called in the United States, is considered one of the allied health diagnostic fields, and data are reported domestically together with those for the CIP codes listed below under ISCED code 55019. Such data are isolated here for purposes of correspondence with the ISCED system, and include:

LT1/LT2

51.0907: Medical Radiologic Technology/Technician

Asc/LT4

51.0907: Medical Radiologic Technology/Technician

55019. Other Programmes in Medical Diagnostic and Treatment Techniques Except Dental Techniques. This program group code as defined in ISCED corresponds to data collected via the following CIP codes:

LT1/LT2

51.0901: Cardiovascular Technology/Technician

51.0902: Electrocardiograph Technology/Technician

51.0903: Electroencephalograph Technology/Technician

51.0904: Emergency Medical Technology/Technician

51.0905: Nuclear Medical Technology/Technician

51.0908: Respiratory Therapy Technician

51.0909: Surgical/Operating Room Technician

51.0910: Diagnostic Medical Sonography Technician

51.0999: Health and Medical Diagnostic and Treatment Services,

Other

Asc/LT4	51.0901: Cardiovascular Technology/Technician
	<i>51.0902: Electrocardiograph Technology/Technician</i>
	51.0903: Electroencephalograph Technology/Technician
	51.0904: Emergency Medical Technology/Technician
	51.0905: Nuclear Medical Technology/Technician
	51.0908: Respiratory Therapy Technician
	51.0909: Surgical/Operating Room Technician
	51.0910: Diagnostic Medical Sonography Technician
	51.0999: Health and Medical Diagnostic and Treatment Services, Other

55030. Medical Technology Programmes. This program group code should be inserted at Level 5 (it appears only at Level 6) to report data accurately on U.S. medical laboratory technology programs. These programs are offered predominantly at the sub-bachelor's degree level and train various laboratory assistants and technicians who work in clinics, hospitals, physician's offices, and laboratory firms. ISCED code 55030 corresponds to:

LT1/LT2	51.0802: Medical Laboratory Assistant
	51.1001: Blood Bank Technology/Technician
	51.1002: Cytotechnologist
	<i>51.1003: Hematology Technology/Technician</i>
	51.1004: Medical Laboratory Technician
	51.1005: Medical Technology
	51.1099: Health and Medical Laboratory Technologies/ Technicians, Other

Asc/LT4	51.0802: Medical Laboratory Assistant
	<i>51.1001: Blood Bank Technology/Technician</i>
	<i>51.1002: Cytotechnologist</i>
	51.1004: Medical Laboratory Technician
	51.1005: Medical Technology
	51.1099: Health and Medical Laboratory Technologies/ Technicians, Other

55042. Dental Practitioner Programmes. The only U.S. program in what ISCED defines as dental practice for which data are reported at the sub-bachelor's degree level is the basic preparatory program in pre-dentistry studies which prepares students to transfer to the required bachelor's degree level program prior to entering dental school. ISCED code 55042 thus corresponds only to:

Asc/LT4 51.1101: Pre-Dentistry Studies

55046. Other Programmes in Dental Techniques. This program group code as defined in ISCED includes all of the allied health fields directly supporting the work of professional dentists. It corresponds to:

LT1/LT2 51.0601: Dental Assistant
51.0602: Dental Hygienist
51.0603: Dental Laboratory Technician
51.0699: Dental Services, Other

Asc/LT4 51.0601: Dental Assistant
51.0602: Dental Hygienist
51.0603: Dental Laboratory Technician
51.0699: Dental Services, Other

55052. Programmes Related to Pharmacy. U.S. professional pharmacy programs are offered only at the bachelor's and graduate degree levels. This program group code as defined in ISCED corresponds only to programs preparing pharmacists' assistants (counter and laboratory); providing initial pre-pharmacy education for students intending to transfer to bachelor's degree programs (sometimes called "pharmacy"); and providing short refresher training for pharmacists. These programs include:

LT1/LT2 51.0805: Pharmacy Technician/Assistant
51.2099: Pharmacy, Other

Asc/LT4 51.0805: Pharmacy Technician/Assistant
51.1103: Pre-Pharmacy Studies
51.2099: Pharmacy, Other

55062. Programmes Related to Optometry. Optometry is a graduate-level professional program in the U.S. which requires a bachelor's degree or the equivalent for entry. Programs offered at the sub-bachelor's level prepare support personnel who work in optical laboratories and retail dispensaries, and who assist optometrists and ophthalmologists. Also offered are programs that provide the first 2 years or so of the preparatory program for prospective entrants to schools of optometry and medicine. ISCED code 55062 thus corresponds to:

LT1/LT2 51.1801: Opticianry/Dispensing Optician
51.1802: Optical Technician/Assistant
51.1899: Ophthalmic/Optometric Services, Other

Asc/LT4 **51.1801: Opticianry/Dispensing Optician**
51.1802: Optical Technician/Assistant
51.1899: Ophthalmic/Optometric Services, Other

55099. Other Medical Diagnostic and Treatment Programmes. A large number of U.S. health professions programs cannot be reported separately because there are no corresponding program group codes assigned in ISCED. Those reporting sub-bachelor's degree data should be reported under this program group code, and include:

LT1/LT2 **51.0205: Sign Language Interpreter**
51.0703: Health Unit Coordinator/Ward Clerk
51.0704: Health Unit Manager/Ward Supervisor
51.0801: Medical Assistant
51.1199: Health and Medical Preparatory Programs, Other
51.1501: Alcohol/Drug Abuse Counseling
51.1502: Psychiatric/Mental Health Services Technician
51.1503: Clinical and Medical Social Work
51.2601: Health Aide
51.9999: Health Professions and Related Sciences, Other

Asc/LT4 *51.0203: Speech-Language Pathology*
51.0203: Speech-Language Pathology and Audiology
51.0205: Sign Language Interpreter
51.0703: Health Unit Coordinator/Ward Clerk
51.0704: Health Unit Manager/Ward Supervisor
51.0801: Medical Assistant
51.1199: Health and Medical Preparatory Programs, Other
51.1302: Medical Biochemistry
51.1399: Basic Medical Sciences, Other
51.1501: Alcohol/Drug Abuse Counseling
51.1502: Psychiatric/Mental Health Services Technician
51.1503: Clinical and Medical Social Work
51.1599: Mental Health Services, Other
51.2601: Health Aide
51.2701: Acupuncture and Oriental Medicine
51.9999: Health Professions and Related Sciences, Other

552. Trade, Craft and Industrial Programmes, n.e.c.

ISCED organization of the trade, craft, and industrial vocational programs differs in important details from U.S. practice. Those differences are reflected in the following listing and in the subsequent discussion of the service trades (broad field 578) at level 5.

55212. Food Processing Trades Programmes. This program group code as defined in ISCED corresponds to data reported on the relatively few U.S. training programs in food processing and production offered at educational institutions. They include:

- | | |
|----------------|---|
| LT1/LT2 | <i>01.0401: Agricultural and Food Products Processing Operations and Management</i>
12.0506: Meatcutter |
| Asc | 01.0401: Agricultural and Food Products Processing Operations and Management
<i>12.0506: Meatcutter</i> |

55216. Building Trades Programmes, n.e.c. This program group code should be inserted at Level 5 (it appears only at Level 3) to report data accurately on U.S. building and construction trades programs. Such programs are usually postsecondary in the United States, and they prepare students for entry-level or advanced work (depending on level) in a variety of occupations related to the construction, inspection, and maintenance of built structures. ISCED code 55216 includes:

- | | |
|----------------|--|
| LT1/LT2 | 46.0101: Mason and Tile Setter
46.0201: Carpenter
46.0301: Electrical and Power Transmission Installer, General
46.0302: Electrician
46.0303: Lineworker
46.0401: Building/Property Maintenance and Manager
46.0403: Construction/Building Inspector
46.0408: Painter and Wall Coverer
46.0499: Construction and Building Finishers and Managers, Other
46.0501: Plumber and Pipefitter
46.9999: Construction Trades, Other |
| Asc/LT4 | 46.0101: Mason and Tile Setter
46.0201: Carpenter
46.0301: Electrical and Power Transmission Installer, General
46.0302: Electrician
<i>46.0303: Lineworker</i>
46.0399: Electrical and Power Transmission Installer, Other
46.0401: Building/Property Maintenance and Manager
46.0403: Construction/Building Inspector |

- 46.0408: Painter and Wall Coverer**
- 46.0499: Construction and Building Finishers and Managers, Other**
- 46.0501: Plumber and Pipefitter**
- 46.9999: Construction Trades, Other**

55222. Electrical and Electronics Trades Programmes. This program group code as defined in ISCED corresponds to the following U.S. programs for training electrical equipment installation and maintenance workers. The difference between these electrical specialties and those listed above under 55216 is that the programs included here pertain to electrical apparatus and appliances, not to the wiring of buildings, cable laying, or wire stringing. ISCED code 55222 includes:

- | | |
|----------------|--|
| LT1/LT2 | 47.0101: Electrical and Electronics Equipment Installer and Repairer, General
47.0102: Business Machine Repairer
47.0103: Computer Systems Installer and Repairer
47.0104: Computer Installer and Repairer
47.0105: Industrial Electronics Installer and Repairer
47.0106: Major Appliance Installer and Repairer
47.0199: Electrical and Electronics Equipment Installer and Repairer, Other |
| Asc/LT4 | 47.0101: Electrical and Electronics Equipment Installer and Repairer, General
47.0102: Business Machine Repairer
47.0103: Computer Systems Installer and Repairer
47.0104: Computer Installer and Repairer
47.0105: Industrial Electronics Installer and Repairer
47.0106: Major Appliance Installer and Repairer
47.0199: Electrical and Electronics Equipment Installer and Repairer, Other |

55232. Metal Trades Programmes. This program group code as defined in ISCED corresponds to data reported on the following U.S. programs to train precision metal workers:

- | | |
|----------------|--|
| LT1/LT2 | 48.0501: Machinist/Machine Technologist
48.0503: Machine Shop Assistant
48.0506: Sheet Metal Worker
48.0507: Tool and Die Maker/Technologist
48.0508: Welder/Welding Technologist |
|----------------|--|

48.0599: Precision Metal Workers, Other

Asc/LT4 48.0501: Machinist/Machine Technologist
48.0503: Machine Shop Assistant
48.0506: Sheet Metal Worker
48.0507: Tool and Die Maker/Technologist
48.0508: Welder/Welding Technologist
48.0599: Precision Metal Workers, Other

55242. Mechanical and Mechanical Repair Trades Programmes. This program group code as defined in ISCED corresponds to data reported on the following U.S. programs to train mechanics and repair workers for various types of equipment, vehicles, and systems:

LT1/LT2 47.0302: Heavy Equipment Maintenance and Repairer
47.0303: Industrial Machinery Maintenance and Repairer
47.0399: Industrial Equipment Maintenance and Repairers,
 Other
47.0401: Instrument Calibration and Repairer
47.0402: Gunsmith
47.0403: Locksmith and Safe Repairer
47.0404: Musical Instrument Repairer
47.0408: Watch, Clock and Jewelry Repairer
47.0499: Miscellaneous Mechanics and Repairers, Other
47.0501: Stationary Energy Sources Installer and Operator
47.0603: Auto/Automotive Body Repairer
47.0604: Auto/Automotive Mechanic/Technician
47.0605: Diesel Engine Mechanic and Repairer
47.0606: Small Engine Mechanic and Repairer
47.0607: Aircraft Mechanic/Technician, Airframe
47.0608: Aircraft Mechanic/Technician, Powerplant
47.0611: Motorcycle Mechanic and Repairer
47.0699: Vehicle and Mobile Equipment Mechanics and Repairers,
 Other
47.9999: Mechanics and Repairers, Other
49.0306: Marine Maintenance and Ship Repairer

Asc/LT4 47.0302: Heavy Equipment Maintenance and Repairer
47.0303: Industrial Machinery Maintenance and Repairer
47.0399: Industrial Equipment Maintenance and Repairers,
 Other
47.0401: Instrument Calibration and Repairer
47.0402: Gunsmith
47.0404: Musical Instrument Repairer

47.0408: Watch, Clock and Jewelry Repairer
47.0499: Miscellaneous Mechanics and Repairers, Other
47.0501: Stationary Energy Sources Installer and Operator
47.0603: Auto/Automotive Body Repairer
47.0604: Auto/Automotive Mechanic/Technician
47.0605: Diesel Engine Mechanic and Repairer
47.0606: Small Engine Mechanic and Repairer
47.0607: Aircraft Mechanic/Technician, Airframe
47.0608: Aircraft Mechanic/Technician, Powerplant
47.0609: Aviation Systems and Avionics Maintenance Technologist/Technician
47.0699: Vehicle and Mobile Equipment Mechanics and Repairers, Other
47.9999: Mechanics and Repairers, Other
49.0306: Marine Maintenance and Ship Repairer

55262. Woodworking Trades Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. woodworking trades programs. Most such programs in the United States are postsecondary in level and train skilled workers for the furniture and other industries producing specialized finished wood products. ISCED 55262 includes:

LT1/LT2	48.0701: Woodworkers, General <i>48.0702: Furniture Designer and Maker</i> 48.0703: Cabinet Maker and Millworker 48.0799: Woodworkers, Other
Asc/LT4	48.0701: Woodworkers, General <i>48.0702: Furniture Designer and Maker</i> 48.0703: Cabinet Maker and Millworker <i>48.0799: Woodworkers, Other</i>

55264. Heating, Air Conditioning and Refrigeration Trades Programmes. This program group code as defined in ISCED corresponds to data reported on a single corresponding U.S. program offered at each sub-bachelor's degree level:

LT1/LT2	47.0201: Heating, Air Conditioning and Refrigeration Mechanic and Repairer
Asc/LT4	47.0201: Heating, Air Conditioning and Refrigeration Mechanic and Repairer

55266. Materials Handling and Earth-Moving Equipment Operating Programmes.

This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. earth-moving equipment operator programs. Data on other types of materials-handling training are either subsumed under other program codes and cannot be disaggregated or are not known to be offered as instructional programs in educational institutions (as opposed to on-the-job training). ISCED code 55266 corresponds to:

LT1/LT2 49.0202: Construction Equipment Operator

LT4 49.0202: Construction Equipment Operator

55272. Leather Trades Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. leather trades programs. Relatively few programs belonging in this category continue to report data in the United States. It corresponds to:

LT2 48.0304: Shoe, Boot and Leather Repairer
48.0399: Leatherworkers and Upholsterers, Other

Asc 48.0399: Leatherworkers and Upholsterers, Other

55274. Programmes in Textile Techniques. U.S. programs dealing with what ISCED defines as "textile techniques" are offered mainly within the fields of home economics and engineering, which are assigned codes elsewhere (see broad fields 554 and 566). No specific programs in this category, as defined in ISCED, exist other than those reported in other placements.

55276. Clothing and Related Trades Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. clothing trades programs pertaining to the commercial tailoring and construction of garments and apparel, as well as upholstering and fabric services. ISCED code 55276 corresponds to:

LT1/LT2 20.0301: Clothing, Apparel, and Textile Workers and Managers,
General
20.0303: Commercial Garment and Apparel Worker
20.0305: Custom Tailor
20.0306: Fashion and Fabric Consultant
20.0399: Clothing, Apparel, and Textile Workers and Managers,
Other
48.0303: Upholsterer

- Asc/LT4** **20.0301: Clothing, Apparel, and Textile Workers and Managers, General**
20.0303: Commercial Garment and Apparel Worker
20.0305: Custom Tailor
20.0306: Fashion and Fabric Consultant
20.0399: Clothing, Apparel, and Textile Workers and Managers, Other
48.0303: Upholsterer

55278. Graphic Arts Programmes. ISCED includes some applied art programs under this program group code at this level, a placement that is inconsistent with the treatment of applied art at other levels. To maintain consistency, this program group code is interpreted as corresponding to data reported for programs training printers and related industrial personnel. (For applied art, see under broad field 518.) ISCED code 55278, as defined, includes:

- LT1/LT2** **48.0201: Graphic and Printing Equipment Operator, General**
48.0205: Mechanical Typesetter and Composer
48.0206: Lithographer and Platemaker
48.0208: Printing Press Operator
48.0212: Desktop Publishing Equipment Operator
48.0299: Graphic and Printing Equipment Operators, Other

- Asc/LT4** **48.0201: Graphic and Printing Equipment Operator, General**
48.0205: Mechanical Typesetter and Composer
48.0206: Lithographer and Platemaker
48.0208: Printing Press Operator
48.0299: Graphic and Printing Equipment Operators, Other

55284. Laboratory Technician Programmes. This program group code as defined in ISCED corresponds to data reported for programs which train non-medical laboratory technicians and assistants. In the United States, the corresponding programs which are not reported under broad field 554 pertain to the training of personnel to assist scientists in both the laboratory and the field. These include:

- LT1/LT2** *41.0101: Biological Technology/Technician*
41.0301: Chemical Technology/Technician
41.0399: Physical Science Technologies/Technicians, Other
41.9999: Science Technologies/Technicians, Other

- Asc/LT4** **41.0101: Biological Technology/Technician**
41.0301: Chemical Technology/Technician

41.0399: Physical Science Technologies/Technicians, Other
41.9999: Science Technologies/Technicians, Other

55286. Optical-Lens-Making Programmes. No U.S. program data exist that pertain to industrial lens-making and other non-medical optical processes as defined by this ISCED program group code. Medical optics program data are reported under broad field 550; lens-making is part of these programs and cannot be disaggregated in a manner corresponding to this ISCED program group definition.

55299. Other Trade, Craft and Industrial Programmes, n.e.c. This program group code as defined in ISCED corresponds to data reported for the following U.S. code:

LT1/LT2 48.9999: Precision Production Trades, Other

Asc/LT4 48.9999: Precision Production Trades, Other

554. Engineering Programmes

Engineering degrees are not offered in the United States at the less-than-4-year level. Pre-engineering programs that prepare students to transfer to 4-year institutions are common, however, and these programs frequently carry the title of the engineering specialty for which they are preparatory. In addition, appropriate U.S. engineering-related technology programs are reported here, as are data on drafting programs. (U.S. drafting program data are not included with engineering or engineering technology, but rather with trades and industry program data.)

55402. Programmes in Surveying. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in surveying, which prepare students to take licensed surveyor examinations or to become surveyor's assistants. (Surveyors are also prepared at higher levels.) ISCED code 55402 corresponds to:

LT1/LT2 15.1102: Surveying

Asc/LT4 15.1102: Surveying

55406. Programmes in Drafting and Design. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in engineering design and drafting. They include:

LT1/LT2 *14.2901: Engineering Design*
48.0101: Drafting, General
48.0102: Architectural Drafting
48.0103: Civil/Structural Drafting
48.0104: Electrical/Electronics Drafting
48.0105: Mechanical Drafting
48.0199: Drafting, Other

Asc/LT4 *14.2901: Engineering Design*
48.0101: Drafting, General
48.0102: Architectural Drafting
48.0103: Civil/Structural Drafting
48.0104: Electrical/Electronics Drafting
48.0105: Mechanical Drafting
48.0199: Drafting, Other

55412. Programmes in Chemical Engineering and Materials Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in plastics technology. No other specific material technology data can be disaggregated from program data reported under other categories. ISCED code 55412 thus includes only:

LT1/LT2 **15.0607: Plastics Technology/Technician**

Asc *14.0601: Ceramic Sciences and Engineering*
14.0701: Chemical Engineering
15.0607: Plastics Technology/Technician

55416. Programmes in Civil Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in civil engineering-related technologies or for transfer to bachelor's degree programs, and to programs providing short refresher courses for professional engineers. ISCED code 55416 includes:

LT1/LT2 **14.0801: Civil Engineering, General**
15.0201: Civil Engineering/Civil Technology/Technician
15.1001: Construction/Building Technology/Technician

Asc/LT4 **14.0801: Civil Engineering, General**
15.0201: Civil Engineering/Civil Technology/Technician
15.1001: Construction/Building Technology/Technician

55422. Programmes in Electrical and Electronics Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in electrical engineering-related technologies or programs providing short refresher courses for professional engineers. ISCED code 55422 includes:

- | | |
|----------------|---|
| LT1/LT2 | 14.1001: Electrical, Electronics and Communications Engineering
15.0301: Computer Engineering Technology/Technician
15.0303: Electrical, Electronic and Communications Engineering Technology/Technician
15.0399: Electrical and Electronic Engineering-Related Technologies/Technicians, Other
15.0402: Computer Maintenance Technology/Technician
15.0403: Electromechanical Technology/Technician
15.0404: Instrumentation Technology/Technician
15.0405: Robotics Technology/Technician
15.0499: Electromechanical Instrumentation and Maintenance Technologies/Technicians, Other |
| Asc/LT4 | 14.0901: Computer Engineering
14.1001: Electrical, Electronics and Communications Engineering
15.0301: Computer Engineering Technology/Technician
15.0303: Electrical, Electronic and Communications Engineering Technology/Technician
15.0399: Electrical and Electronic Engineering-Related Technologies/Technicians, Other
15.0402: Computer Maintenance Technology/Technician
15.0403: Electromechanical Technology/Technician
15.0404: Instrumentation Technology/Technician
15.0405: Robotics Technology/Technician
15.0499: Electromechanical Instrumentation and Maintenance Technologies/Technicians, Other |

55426. Programmes in Industrial Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in industrial engineering-related technologies (which includes occupational safety in the United States) or programs providing short refresher courses for professional engineers. ISCED code 55426 includes:

- | | |
|----------------|--|
| LT1/LT2 | 14.1701: Industrial/Manufacturing Engineering
15.0603: Industrial/Manufacturing Technology/Technician |
|----------------|--|

**15.0699: Industrial Production Technologies/Technicians,
Other**
15.0701: Occupational Safety and Health Technology/Technician
15.0702: Quality Control Technology/Technician
*15.0799: Quality Control and Safety Technologies/Technicians,
Other*

Asc/LT4 **14.1701: Industrial/Manufacturing Engineering**
15.0603: Industrial/Manufacturing Technology/Technician
**15.0699: Industrial Production Technologies/Technicians,
Other**
15.0701: Occupational Safety and Health Technology/Technician
15.0702: Quality Control Technology/Technician
*15.0799: Quality Control and Safety Technologies/Technicians,
Other*

55432. Programmes in Metallurgical Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in metallurgical technology or programs providing short refresher courses for professional engineers. ISCED code 55432 includes:

LT2 *15.0611: Metallurgical Technology/Technician*

Asc/LT4 *14.2001: Metallurgical Engineering*
15.0611: Metallurgical Technology/Technician

55436. Programmes in Mining Engineering Techniques. The U.S. program data corresponding to this ISCED program group pertain to programs preparing students in mining technology. ISCED code 55436 includes:

LT2 *15.0999: Mining Technology/Technician*

Asc **15.0901: Mining Technology/Technician**
**15.0999: Mining and Petroleum Technologies/Technicians,
Other**

55442. Programs in Mechanical Engineering Techniques. While some data on pre-engineering programs corresponding to this ISCED program group are reported in the United States, most data pertain to programs preparing students in various mechanical technologies or programs providing short refresher courses for professional engineers. ISCED code

55442 includes:

- | | |
|----------------|--|
| LT1/LT2 | <i>14.0201: Aerospace, Aeronautical and Astronautical Engineering</i>
<i>14.1901: Mechanical Engineering</i>
<i>14.2201: Naval Architecture and Marine Engineering</i>
15.0801: Aeronautical and Aerospace Engineering Technology/
Technician
15.0803: Automotive Engineering Technology/Technician
15.0805: Mechanical Engineering/Mechanical Technology/
Technician
15.0899: Mechanical Engineering-Related Technologies/
Technicians, Other |
| Asc/LT4 | <i>14.0201: Aerospace, Aeronautical and Astronautical Engineering</i>
<i>14.1901: Mechanical Engineering</i>
<i>14.2201: Naval Architecture and Marine Engineering</i>
15.0801: Aeronautical and Aerospace Engineering Technology/
Technician
15.0803: Automotive Engineering Technology/Technician
15.0805: Mechanical Engineering/Mechanical Technology/
Technician
15.0899: Mechanical Engineering-Related Technologies/
Technicians, Other
<i>15.1103: Hydraulics Technology/Technician</i> |

55452. Programmes in Agricultural, Forestry and Fishery Engineering Techniques.

There are no U.S. data corresponding to this program group code which can be disaggregated from other agricultural- and natural resources-related program data (see 55453 below and also broad field 562).

55453. Agricultural Engineering Programmes. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data consistently on U.S. agricultural engineering programs at the sub-bachelor's degree level. Such data cannot be reported under 55452 (see above) without destroying the organizational consistency of the crosswalk. ISCED code 55453 corresponds to:

- | | |
|------------|--|
| LT1 | <i>14.0301: Agricultural Engineering</i> |
|------------|--|

55499. Other Engineering Programmes. This program group code as defined in ISCED corresponds to data reported for a wide variety of programs for which no specific ISCED assignment exists. Most of these program data pertain to engineering technology programs.

but some pre-engineering transfer and short refresher programs are also included. ISCED code 55499 includes:

- | | |
|----------------|--|
| LT1/LT2 | 14.0101: Engineering, General
<i>14.0501: Bioengineering and Biomedical Engineering</i>
<i>14.1101: Engineering Mechanics</i>
<i>14.1301: Engineering Science</i>
<i>14.2801: Textile Sciences and Engineering</i>
<i>14.9999: Engineering, Other</i>
15.0304: Laser and Optical Technology/Technician
15.0401: Biomedical Engineering-Related Technology/Technician
15.0501: Heating, Air Conditioning and Refrigeration Technology/Technician
15.0503: Energy Management and Systems Technology/Technician
<i>15.0505: Solar Technology/Technician</i>
15.0506: Water Quality and Wastewater Treatment Technology/Technician
15.0599: Environmental Control Technologies/Technicians, Other
15.0903: Petroleum Technology/Technician
15.9999: Engineering-Related Technologies/Technicians, Other
<i>41.0204: Industrial Radiologic Technology/Technician</i>
<i>41.0205: Nuclear/Nuclear Power Technology/Technician</i> |
| Asc/LT4 | 14.0101: Engineering, General
14.1301: Engineering Science
<i>14.1401: Environmental/Environmental Health Engineering</i>
<i>14.2801: Textile Sciences and Engineering</i>
14.9999: Engineering, Other
15.0304: Laser and Optical Technology/Technician
15.0401: Biomedical Engineering-Related Technology/Technician
15.0501: Heating, Air Conditioning and Refrigeration Technology/Technician
15.0503: Energy Management and Systems Technology/Technician
15.0505: Solar Technology/Technician
15.0506: Water Quality and Wastewater Treatment Technology/Technician
<i>15.0507: Environmental and Pollution Control Technology/Technician</i>
15.0599: Environmental Control Technologies/Technicians, Other |

15.0903: Petroleum Technology/Technician
15.1101: Engineering-Related Technology/Technician, General
15.9999: Engineering-Related Technologies/Technicians, Other
41.0204: Industrial Radiologic Technology/Technician
41.0205: Nuclear/Nuclear Power Technology/Technician
41.0299: Nuclear and Industrial Radiologic Technologies/Technicians, Other

558. Architectural and Town-Planning Programmes

Architecture and professional urban planning programs are not offered at this level in the United States but, like engineering, may exist as preparatory transfer programs. Short programs for professional architects and planners may also be reported at this level (IPEDS LT1 and LT2), as may general introductory architecture appreciation programs. Some sub-bachelor's degree programs preparing individuals to assistant architects use titles similar to those of the professional specialty they support, and data for them are also reported here.

55801. General Programmes in Architecture. This program group code as defined in ISCED corresponds to data reported on sub-bachelor's degree preparatory programs (for transfer to 5- or 6-year bachelor of architecture programs) and other short programs using the same title. ISCED code 55801 includes:

LT2	04.0201: Architecture
Asc	04.0201: Architecture

55802. Programmes in Structural Architecture. This program group code as defined in ISCED corresponds to data reported on programs which are assigned to different locations in U.S. practice, principally engineering and related technologies. These programs, at level 5, include preparatory transfer programs, terminal programs for technicians, and short refresher programs for professionals. ISCED code 55802 includes:

LT1/LT2	04.0501: Interior Architecture 14.0401: Architectural Engineering 15.0101: Architectural Engineering Technology/Technician
Asc/LT4	04.0501: Interior Architecture 14.0401: Architectural Engineering 15.0101: Architectural Engineering Technology/Technician

55812. Programmes in Landscape Architecture. U.S. data corresponding to this ISCED program group code are few and pertain to sub-bachelor's degree programs in landscaping that are offered in conjunction with architecture, either general or preparatory programs. The data include:

LT2 *04.0601: Landscape Architecture*

Asc *04.0601: Landscape Architecture*

55822. Programmes in Town or Community Planning. Some sub-bachelor's degree program data corresponding to this ISCED program group code are reported in the United States, primarily at the associate degree level. Such programs may be preparatory or general programs for assistants or students planning professional studies; full professional programs are offered only at the bachelor's degree and higher levels. Reported data include:

LT2 *04.0401: Architectural Environmental Design*
 04.0701: Architectural Urban Design and Planning

Asc **04.0401: Architectural Environmental Design**

55899. Other Programmes in Architecture and Town Planning. This program group code should be inserted at level 5 in order to report accurately U.S. data for architecture-related programs not elsewhere classified. What is reported corresponds to:

Asc *04.9999: Architecture and Related Programs, Other*

562. Agricultural, Forestry and Fishery Programmes

In the ISCED system, this broad field includes programs related to veterinary medicine, whereas such programs are placed in the health professions and related sciences in U.S. data reporting. ISCED also combines forestry (which it defines to include wildlife management) and fishing programs with agriculture under this broad field, while U.S. classification practice separates them. U.S. programs at this level provide training for farmers and production specialists, research assistants, wholesale and retail supply and service workers, and basic preparation for persons intending to continue their studies at the bachelor's degree level.

56201. General Programmes in Agriculture. This program group code as defined in ISCED corresponds to data reported on U.S. sub-bachelor's degree general programs in agricultural sciences and business operations. It includes:

- LT1/LT2** **01.0101: Agricultural Business and Management, General**
01.0301: Agricultural Production Workers and Managers, General
02.0101: Agriculture/Agricultural Sciences, General
- Asc/LT4** **01.0101: Agricultural Business and Management, General**
01.0301: Agricultural Production Workers and Managers, General
02.0101: Agriculture/Agricultural Sciences, General

56203. Animal Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. programs which prepare agricultural workers and research assistants who specialize in domestic animals. ISCED code 56203 corresponds to:

- LT1/LT2** **01.0302: Agricultural Animal Husbandry and Production Management**
01.0303: Aquaculture Operations and Production Management
01.0399: Agricultural Production Works and Managers, Other
02.0201: Animal Sciences, General
02.0203: Agricultural Animal Health
02.0206: Dairy Science
02.0209: Poultry Science
02.0299: Animal Sciences, Other
- Asc/LT4** **01.0302: Agricultural Animal Husbandry and Production Management**
01.0303: Aquaculture Operations and Production Management
01.0399: Agricultural Production Works and Managers, Other
02.0201: Animal Sciences, General
02.0202: Agricultural Animal Breeding and Genetics
02.0203: Agricultural Animal Health
02.0205: Agricultural Animal Physiology
02.0206: Dairy Science
02.0209: Poultry Science
02.0299: Animal Sciences, Other

56206. Horticulture Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in horticulture science and the provision of various horticultural services. It corresponds to:

- LT1/LT2** **01.0601: Horticulture Services Operations and Management, General**

01.0603: Ornamental Horticulture Operations and Management
01.0604: Greenhouse Operations and Management
01.0605: Landscaping Operations and Management
01.0606: Nursery Operations and Management
01.0607: Turf Management
01.0699: Horticulture Services Operations and Management, Other
02.0403: Horticulture Science

Asc/LT4 01.0601: Horticulture Services Operations and Management, General
01.0603: Ornamental Horticulture Operations and Management
01.0604: Greenhouse Operations and Management
01.0605: Landscaping Operations and Management
01.0606: Nursery Operations and Management
01.0607: Turf Management
01.0699: Horticulture Services Operations and Management, Other
02.0403: Horticulture Science

56208. Crop Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in crop production and domesticated plant sciences. It corresponds to:

LT1/LT2 02.0402: Agronomy and Crop Science
02.0408: Plant Protection (Pest Management)
02.0499: Plant Sciences, Other

Asc/LT4 01.0304: Crop Production Operations and Management
02.0401: Plant Sciences, General
02.0402: Agronomy and Crop Science
02.0408: Plant Protection (Pest Management)
02.0409: Range Science and Management
02.0499: Plant Sciences, Other

56212. Agricultural Economics Programmes. This program group code as defined in ISCED includes various farm management and business-related subjects as well as agricultural economics. The corresponding U.S. program data are reported under:

LT1/LT2 01.0102: Agricultural Business/Agribusiness Operations
01.0104: Farm and Ranch Management
01.0199: Agricultural Business and Management, Other

Asc/LT4 **01.0102: Agricultural Business/Agribusiness Operations**
01.0103: Agricultural Economics
01.0104: Farm and Ranch Management
01.0199: Agricultural Business and Management, Other

56222. Food Science and Technology Programmes. This ISCED program group code should be inserted at level 5 (it appears only at levels 6 and 7) in order to accurately report data on U.S. sub-bachelor's degree programs in the industrial production of food products from agricultural raw materials. It includes:

Asc *02.0301: Food Science and Technology*

56226. Soil and Water Technician Programmes. ISCED defines this program group code as referring to soil and water programs of different types at different levels. U.S. water resources programs pertaining to agriculture cannot be disaggregated from water resources programs reported under engineering and related technologies (see broad field 554) or elsewhere in the agriculture field. Any data on soil quality technician programs at level 5 are reported under:

Asc *02.0501: Soil Sciences*

56232. Veterinarian Technician Programmes. Veterinary medicine is a graduate-level field of study in the U.S. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs that train veterinary assistants or provide the first 2 years of the 4-year preparatory program required prior to entry into veterinary medicine programs. ISCED code 56232 includes:

LT1/LT2 **51.0808: Veterinary Assistant/Animal Health Technician**

Asc/LT4 **51.0808: Veterinary Assistant/Animal Health Technician**
51.1104: Pre-Veterinary Studies

56249. Other Programmes in Agriculture. A number of other agriculture-related programs are not assigned specific ISCED codes and should be reported here to the extent that they produce sub-bachelor's degree data. They include:

LT1/LT2 **01.0201: Agricultural Mechanization, General**
01.0204: Agricultural Power Machinery Operator
01.0299: Agricultural Mechanization, Other
01.0501: Agricultural Supplies Retailing and Wholesaling

01.0505: Animal Trainer
01.0507: Equestrian/Equine Studies, Horse Management and Training
01.0599: Agricultural Supplies and Related Services, Other
01.9999: Agricultural Business and Production, Other

Asc/LT4 **01.0201: Agricultural Mechanization, General**
01.0204: Agricultural Power Machinery Operator
01.0299: Agricultural Mechanization, Other
01.0501: Agricultural Supplies Retailing and Wholesaling
01.0505: Animal Trainer
01.0507: Equestrian/Equine Studies, Horse Management and Training
01.0599: Agricultural Supplies and Related Services, Other
01.9999: Agricultural Business and Production, Other
02.9999: Agriculture/Agricultural Sciences, Other

56262. Programmes in Forestry and Forest-Product Techniques. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in various forestry specializations and wildlife management. It includes:

LT1/LT2 **03.0401: Forest Harvesting and Production Technology/Technician**
03.0404: Forest Products Technology/Technician
03.0405: Logging/Timber Harvesting
03.0499: Forest Production and Processing, Other
03.0502: Forestry Sciences
03.0601: Wildlife and Wildlands Management

Asc/LT4 **03.0401: Forest Harvesting and Production Technology/Technician**
03.0404: Forest Products Technology/Technician
03.0499: Forest Production and Processing, Other
03.0501: Forestry, General
03.0502: Forestry Sciences
03.0506: Forest Management
03.0509: Wood Science and Pulp/Paper Technology
03.0599: Forestry and Related Sciences, Other
03.0601: Wildlife and Wildlands Management

56272. Fishery Technician Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs that prepare both

commercial fishing workers and provide a basic grounding in fisheries science and the management of fishing operations. It includes:

LT1/LT2 *03.0301: Fishing and Fisheries Sciences and Management*
 49.0303: Fishing Technology/Commercial Fishing

Asc **03.0301: Fishing and Fisheries Sciences and Management**

566. Home Economics (Domestic Science) Programmes

ISCED does not follow a home economics classification scheme similar to that used in the United States. In particular, several home economics-related vocational programs are reported elsewhere in ISCED, under either the trades and industry (broad field 552) or service trades (broad field 578) categories. Only programs corresponding to the ISCED definition of home economics and for which data are reported at this level are included below.

56601. General Programmes in Home Economics. This program group code as defined in ISCED corresponds to data reported for U.S. sub-bachelor's degree programs in general home economics, including:

Asc/LT4 **19.0101: Home Economics, General**

56612. Programmes with Emphasis on Household Food Management and Nutrition.

This program group code as defined in ISCED includes institutional food services as well as home consumer programs. Sub-bachelor's degree program data are reported under the following corresponding CIP codes:

LT1/LT2 *19.0402: Consumer Economics and Science*
 19.0503: Dietetics/Human Nutritional Services
20.0401: Institutional Food Workers and Administrators,
 General
20.0404: Dietician Assistant
20.0409: Institutional Food Services Administrator
20.0499: Institutional Food Workers and Administrators,
 Other

Asc/LT4 *19.0401: Family Resource Management Studies*
 19.0402: Consumer Economics and Science
 19.0501: Foods and Nutrition Studies, General
 19.0502: Foods and Nutrition Science
 19.0503: Dietetics/Human Nutritional Services

**20.0401: Institutional Food Workers and Administrators,
General**
20.0404: Dietician Assistant
20.0409: Institutional Food Services Administrator
**20.0499: Institutional Food Workers and Administrators,
Other**

56622. Programmes with Emphasis on Child Care. This program group code as defined in ISCED corresponds to data reported on U.S. sub-bachelor's degree programs in child and family studies and the training of child care workers. It includes:

LT1/LT2 *19.0701: Child Growth, Care, and Development Studies*
 19.0701: Individual and Family Development Studies, Other
**20.0201: Child Care and Guidance Workers and Managers,
General**
20.0202: Child Care Provider/Assistant
20.0203: Child Care Services Manager
**20.0299: Child Care and Guidance Workers and Managers,
Other**

Asc/LT4 **19.0701: Individual and Family Development Studies, General**
 19.0701: Child Growth, Care, and Development Studies
 19.0701: Individual and Family Development Studies, Other
**20.0201: Child Care and Guidance Workers and Managers,
General**
20.0202: Child Care Provider/Assistant
20.0203: Child Care Services Manager
**20.0299: Child Care and Guidance Workers and Managers,
Other**

56632. Programmes with Emphasis on Household Arts. This program group code as defined in ISCED includes both housing/interiors studies and clothing and textile programs (other than those reported under broad field 552). Corresponding U.S. sub-bachelor's degree program for which data are reported include:

LT1/LT2 *19.0901: Clothing/Apparel and Textile Studies*
**20.0501: Home Furnishings and Equipment Installers and
Consultants, General**
 20.0502: Window Treatment Maker and Installer
**20.0599: Home Furnishings and Equipment Installers and
Consultants, Other**

Asc/LT4 *19.0601: Housing Studies, General*
 19.0901: Clothing/Apparel and Textile Studies
 20.0501: Home Furnishings and Equipment Installers and
 Consultants, General
 20.0502: Window Treatment Maker and Installer
 20.0599: Home Furnishings and Equipment Installers and
 Consultants, Other

56699. Other Home Economics Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported on a variety of U.S. home economics programs, including:

LT1/LT2 **20.0601: Custodial, Housekeeping and Home Services Workers**
 and Managers, General
 20.0602: Elder Care Provider/Companion
 20.0606: Homemaker's Aide
 20.0699: Custodial, Housekeeping and Home Services Workers
 and Managers, Other
 20.9999: Vocational Home Economics, Other

Asc *19.9999: Home Economics, Other*
 20.0601: Custodial, Housekeeping and Home Services Workers
 and Managers, General
 20.9999: Vocational Home Economics, Other

570. Transport and Communications Programmes

This ISCED broad field, as defined, includes several programs classified in the United States as trades and industry programs. Where corresponding U.S. program codes exist, they are listed below as they should appear in reports using ISCED. Many of these programs are of short duration and limited scope, especially the vehicle operator and crew training programs. Others involve training for managerial and broader technical responsibilities and are several years in duration. These latter programs may also prepare students to transfer to bachelor's degree programs.

57002. Air Crew Programmes. ISCED defines this program group to exclude all aviation transportation programs other than flight crew training. Consequently, the only data to be reported here are for the following U.S. air crew programs:

LT1/LT2 **49.0102: Aircraft Pilot and Navigator (Professional)**
 49.0106: Flight Attendant

49.0107: Aircraft Pilot (Private)

Asc/LT4 **49.0102: Aircraft Pilot and Navigator (Professional)**
49.0106: Flight Attendant
49.0107: Aircraft Pilot (Private)

57004. Ships' Officer Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs that train merchant marine and private shipboard personnel, including officers and other trained hands. It includes:

LT1/LT2 *49.0309: Marine Science/Merchant Marine Officer*
49.0399: Water Transportation Workers, Other

Asc/LT4 *49.0309: Marine Science/Merchant Marine Officer*
49.0399: Water Transportation Workers, Other

57006. Railway Operation Programmes. No U.S. data exist that correspond to this program group code. Virtually no such programs are known to be offered by U.S. postsecondary institutions, and data for any that exist would be reported under the "other" category (see 57008 and 57029 below) and not be disaggregated.

57008. Road Motor Vehicle Operation Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs training operators of land vehicles (other than construction and farm vehicles; see broad fields 552 and 562). It includes:

LT1/LT2 **49.0205: Truck, Bus and Other Commercial Vehicle Operator**
49.0299: Vehicle and Equipment Operators, Other

Asc/LT4 *49.0205: Truck, Bus and Other Commercial Vehicle Operator*
49.0299: Vehicle and Equipment Operators, Other

57026. Postal Services Programmes Except Electronics Equipment Installation and Servicing. No U.S. data exist that correspond to this program group code. U.S. postal workers get job-specific training in U.S. Postal Service training programs; any additional education received would be acquired in other settings and not distinguishable as postal services programs *per se*.

57029. Other Communications Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for the following U.S. program codes:

LT1/LT2	49.0101: Aviation and Airway Science
	<i>49.0104: Aviation Management</i>
	<i>49.0105: Air Traffic Controller</i>
	49.0199: Air Transportation Workers, Other
	49.0304: Diver (Professional)
	<i>49.9999: Transportation and Materials Moving Workers, Other</i>
Asc/LT4	49.0101: Aviation and Airway Science
	49.0104: Aviation Management
	49.0105: Air Traffic Controller
	49.0199: Air Transportation Workers, Other
	<i>49.0304: Diver (Professional)</i>
	49.9999: Transportation and Materials Moving Workers, Other

578. Service Trades Programmes

This ISCED broad field includes a variety of programs that in the United States are classified under business, marketing operations, home economics, and personal services. They are reported here for purposes of the ISCED crosswalk. Only a few of the programs listed below are also offered at higher levels; most are terminal at the sub-bachelor's degree level and prepare students directly for work.

57812. Barbering and Beauty Culture Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. cosmetics and beauty culture programs. It corresponds to:

LT1/LT2	12.0401: Cosmetic Services, General
	12.0402: Barber/Hairstylist
	12.0403: Cosmetologist
	<i>12.0404: Electrolysis Technician</i>
	12.0405: Massage
	12.0406: Make-Up Artist
	12.0499: Cosmetic Services, Other
Asc/LT4	12.0402: Barber/Hairstylist
	12.0403: Cosmetologist

12.0405: Massage

12.0499: Cosmetic Services, Other

57822. Hotel and Restaurant Trades Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. hotel and restaurant operations programs. Such programs, at the sub-bachelor's degree level, train retail service personnel, operational managers and supervisors, and specialists in various support occupations. ISCED code 57822 corresponds to:

**LT1/LT2 08.0901: Hospitality and Recreation Marketing Operations,
General**
08.0902: Hotel/Motel Services Marketing Operations
12.0504: Food and Beverage/Restaurant Operations Manager
20.0604: Custodian/Caretaker
20.0605: Executive Housekeeper

**Asc/LT4 08.0901: Hospitality and Recreation Marketing Operations,
General**
08.0902: Hotel/Motel Services Marketing Operations
08.0903: Recreation Products/Services Marketing Operations
*08.0999: Hospitality and Recreation Marketing Operations,
Other*
12.0504: Food and Beverage/Restaurant Operations Manager
20.0605: Executive Housekeeper
20.0604: Custodian/Caretaker

57826. Programmes in Cooking (Restaurant and Hotel Type). This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs that train professional chefs and other workers in the culinary arts occupations. It includes:

LT1/LT2 12.0501: Baker/Pastry Chef
12.0502: Bartender/Mixologist
12.0503: Culinary Arts/Chef Training
12.0505: Kitchen Personnel/Cook and Assistant Training
12.0507: Waiter/Waitress and Dining Room Manager
12.0599: Culinary Arts and Related Services, Other
20.0405: Food Caterer

Asc/LT4 12.0501: Baker/Pastry Chef
12.0503: Culinary Arts/Chef Training
12.0599: Culinary Arts and Related Services, Other

57842. Laundry and Dry-Cleaning Trades Programmes. This program group code should be inserted at level 5 (it appears only at level 3) to report data accurately on U.S. programs in laundry and drycleaning. It corresponds to:

LT1/LT2 20.0309: Drycleaner and Launderer (Commercial)

Asc 20.0309: Drycleaner and Launderer (Commercial)

57862. Retailing Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for a variety of U.S. programs that train retail sales personnel in different product specializations. It includes:

**LT1/LT2 08.0101: Apparel and Accessories Marketing Operations,
General
08.0102: Fashion Merchandising
08.0103: Fashion Modeling
08.0199: Apparel and Accessories Marketing Operations,
Other
08.0299: Business and Personal Services Marketing Operations,
Other
08.0401: Financial Services Marketing Operations
08.0503: Floristry Marketing Operations
08.0601: Food Products Retailing and Wholesaling Operations
08.0809: Home Products Marketing Operations
08.1001: Insurance Marketing Operations
08.1203: Vehicle Parts and Accessories Marketing Operations
08.1299: Vehicle and Petroleum Products Marketing Operations,
Other
08.9999: Marketing Operations/Marketing and Distribution,
Other**

**Asc/LT4 08.0101: Apparel and Accessories Marketing Operations,
General
08.0102: Fashion Merchandising
08.0199: Apparel and Accessories Marketing Operations,
Other
08.0299: Business and Personal Services Marketing Operations,
Other
08.0401: Financial Services Marketing Operations
08.0503: Floristry Marketing Operations
08.0601: Food Products Retailing and Wholesaling Operations
08.0809: Home Products Marketing Operations
08.0899: Home and Office Products Marketing Operations,**

Other
08.1001: Insurance Marketing Operations
08.1203: Vehicle Parts and Accessories Marketing Operations
08.1299: Vehicle and Petroleum Products Marketing Operations,
Other
08.9999: Marketing Operations/Marketing and Distribution,
Other

57872. Tourist Trades Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs training retail services workers and office assistants for the travel and tourism industry. It includes:

LT1/LT2 **08.1104: Tourism Promotion Operations**
 08.1105: Travel Services Marketing Operations
 08.1199: Tourism and Travel Services Marketing Operations,
 Other

Asc/LT4 **08.1104: Tourism Promotion Operations**
 08.1105: Travel Services Marketing Operations
 08.1199: Tourism and Travel Services Marketing Operations,
 Other

57899. Other Service Trades Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs in several services occupations which are not assigned specific ISCED codes. It includes:

LT1/LT2 *12.0203: Card Dealer*
 12.0299: Gaming and Sports Officiating Services, Other
 12.0301: Funeral Services and Mortuary Science
 12.9999: Personal and Miscellaneous Services, Other

Asc/LT4 **12.0301: Funeral Services and Mortuary Science**
 12.9999: Personal and Miscellaneous Services, Other

584. Programmes in Mass Communications and Documentation

This ISCED broad field code includes the journalism and communications fields, library science and related fields, and miscellaneous technical programs associated with audiovisual communications. Each of these is reported separately in the United States, but they are combined for ISCED reporting purposes. At the sub-bachelor's degree level these programs prepare assistants and technical support personnel.

58402. Programmes in Journalism. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs related to journalism and mass communications, including:

LT1/LT2 09.0401: Journalism

Asc/LT4 09.0401: Journalism
09.0403: Mass Communications

58404. Programmes in Radio and Television Broadcasting. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs related to broadcast communications, including:

LT1/LT2 09.0402: Broadcast Journalism
09.0701: Radio and Television Broadcasting
**10.0104: Radio and Television Broadcasting Technology/
Technician**

Asc/LT4 09.0402: Broadcast Journalism
09.0701: Radio and Television Broadcasting
**10.0104: Radio and Television Broadcasting Technology/
Technician**

58407. Public Relations Programmes. This program group code as defined in ISCED corresponds to data reported for associate degree programs under the following code:

Asc 09.0501: Public Relations and Organizational Communications

58409. Other Programmes in Communications Arts. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. communications programs not elsewhere classified, including:

LT1/LT2 09.0101: Communications, General
09.9999: Communications, Other
**10.0101: Educational/Instructional Media Technology/
Technician**
10.0199: Communications Technologies/Technicians, Other

Asc/LT4 09.0101: Communications, General
09.9999: Communications, Other

**10.0101: Educational/Instructional Media Technology/
Technician**

10.0199: Communications Technologies/Technicians, Other

58422. Library Technician Programmes. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs training library assistants and support personnel, including:

LT1/LT2 *25.0101: Library Science/Librarianship*
25.0301: Library Assistant

Asc **25.0101: Library Science/Librarianship**
25.0301: Library Assistant
25.9999: Library Science, Other

58425. Programmes for Technicians in Museums and Similar Repositories. Most U.S. program data corresponding to this program group code are subsumed under other headings (such as art history, music instrument repair, historic preservation, etc.) and cannot be disaggregated. As defined, this code only corresponds to sub-bachelor's degree data reported for:

LT1 *30.1401: Museology/Museum Studies*

Asc *30.1401: Museology/Museum Studies*

58429. Programmes in Documentation Techniques, n.e.c. No corresponding U.S. program data, other than that reported in other locations (see 52251, 58422, and 58425), exist.

589. Other Programmes of Education at the Third Level, First Stage of the Type that Leads to an Award Not Equivalent to a First University Degree

ISCED uses this broad field to report data on a variety of classified programs as well as "other" or "unknown" programs. The identifiable program classifications assigned here include social work, community organization, R.O.T.C. programs, public safety (fire and law enforcement) programs, physical education and recreation, and natural resources and conservation. Any such data reported at this level refers to programs that prepare assistants and support personnel; train entry-level workers; provide the basis for transfer to a higher level program (where one exists); or provide short courses for professional continuing education or casual interest.

58912. Programmes in Police Work and Related Law Enforcement. This program group code as defined in ISCED corresponds to data reported for U.S. programs training police, prison, and public safety personnel at the sub-bachelor's degree level. It includes:

- | | |
|----------------|--|
| LT1/LT2 | 43.0102: Corrections/Correctional Administration
43.0103: Criminal Justice/Law Enforcement Administration
43.0104: Criminal Justice Studies
<i>43.0106: Forensic Technology/Technician</i>
43.0107: Law Enforcement/Police Science
43.0109: Security and Loss Prevention Services
43.0199: Criminal Justice and Corrections, Other |
| Asc/LT4 | 43.0102: Corrections/Correctional Administration
43.0103: Criminal Justice/Law Enforcement Administration
43.0104: Criminal Justice Studies
43.0106: Forensic Technology/Technician
43.0107: Law Enforcement/Police Science
43.0109: Security and Loss Prevention Services
43.0199: Criminal Justice and Corrections, Other |

58913. Programmes in Criminology. This program group code should be inserted at level 5 (it appears at levels 6 and 7) to report data consistently on U.S. programs that use the title "criminology." These programs, at level 5, are similar to the police training programs listed under 58912 and frequently prepare students to transfer to bachelor's degree programs in either law enforcement or the academic study of criminology. ISCED code 58913 includes:

- | | |
|------------|-----------------------------|
| Asc | 45.0401: Criminology |
|------------|-----------------------------|

58915. Fire-Protection and Fire-Fighting Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. programs training firefighting and fire safety personnel at the sub-bachelor's degree level. It includes:

- | | |
|----------------|---|
| LT1/LT2 | 43.0201: Fire Protection and Safety Technology/Technician
43.0202: Fire Services Administration
43.0203: Fire Science/Firefighting
<i>43.0299: Fire Protection, Other</i> |
| Asc/LT4 | 43.0201: Fire Protection and Safety Technology/Technician
43.0202: Fire Services Administration
43.0203: Fire Science/Firefighting |

43.0299: Fire Protection, Other

58917. Military Programmes. Aside from one specialized field, military technologies, the United States armed services do not grant degrees, nor do U.S. educational institutions, in specific military fields. Officers and enlisted personnel who possess postsecondary qualifications concentrate in civilian subjects such as engineering, business, and history, and their degrees—even from the service academies—reflect regular academic studies. It is possible for personnel who have been commissioned as officers under the Reserve Officer Training Program (ROTC), which occurs on civilian campuses, to occasionally be listed as completing such programs in addition to their actual major. Students in sub-bachelor's degree programs may join what is called Junior ROTC, which allows those in good standing to transfer into a regular (bachelor's degree level) ROTC program. Data on ROTC completions are not routinely reported because they do not lead to academic awards. Thus, the only data corresponding to this program group code which are normally reported would be under the following code:

Asc *29.0101: Military Technologies*

58919. Other Programmes in Civil Security. This program group code as defined in ISCED corresponds only to the following U.S. code:

LT1/LT2 **43.9999: Protective Services, Other**

Asc/LT4 **43.9999: Protective Services, Other**

58932. Programmes in Social Work. This program group code as defined in ISCED is the place to report sub-bachelor's degree data on a variety of U.S. social and community assistance programs, including social work. As defined, it corresponds to:

LT1/LT2 *19.0301: Family and Community Studies*
 19.0704: Family Life and Relations Studies
 19.0705: Gerontological Services
 44.0201: Community Organization, Resources and Services
 44.0701: Social Work

Asc/LT4 **19.0301: Family and Community Studies**
 19.0705: Gerontological Services
 44.0201: Community Organization, Resources and Services
 44.0701: Social Work

58942. Programmes in Vocational Counseling. There are no U.S. program data corresponding to this program group code, at this level, that can be disaggregated from codes reported elsewhere (see codes 55099 and 58932).

58952. Programmes in Environmental Studies. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for U.S. programs that train conservation assistants and field personnel and introduce students to the general study of the environment. It includes:

LT1/LT2 *03.0101: Natural Resources Conservation, General*
 03.0102: Environmental Science/Studies
 03.0203: Natural Resources Law Enforcement and Protective Services
 03.9999: Conservation and Renewable Natural Resources, Other

Asc/LT4 **03.0101: Natural Resources Conservation, General**
 03.0102: Environmental Science/Studies
 03.0201: Natural Resources Management and Policy
 03.0203: Natural Resources Law Enforcement and Protective Services
 03.0299: Natural Resources Management and Protective Services, Other
 03.9999: Conservation and Renewable Natural Resources, Other

58962. Programmes in Physical Education. This program group code is the appropriate place to report sub-bachelor's degree data on all U.S. physical education and related recreation programs that do not have to do with teacher education. As defined, it corresponds to:

LT1/LT2 **31.0101: Parks, Recreation and Leisure Studies**
 31.0301: Parks, Recreation and Leisure Facilities Management
 31.0505: Exercise Sciences/Physiology and Movement Studies
 31.0599: Health and Physical Education/Fitness, Other
 31.9999: Parks, Recreation, Leisure and Fitness Studies, Other

Asc/LT4 **31.0101: Parks, Recreation and Leisure Studies**
 31.0301: Parks, Recreation and Leisure Facilities Management

31.0503: *Athletic Training and Sports Medicine*
 31.0504: *Sport and Fitness Administration/Management*
31.0505: Exercise Sciences/Physiology and Movement Studies
31.0599: Health and Physical Education/Fitness, Other
31.9999: Parks, Recreation, Leisure and Fitness Studies, Other

58999. Other Programmes of Education, n.e.c. This program group code as defined in ISCED corresponds to sub-bachelor's degree data reported for the following U.S. programs which are classified nowhere else:

LT1/LT2	30.1101: <i>Gerontology</i> 30.9999: Multi/Interdisciplinary Studies, Other
Asc/LT4	30.9999: Multi/Interdisciplinary Studies, Other

CHAPTER 8

Crosswalking Data at Level 6: Education at the Third Level, First Stage, of the Type that Leads to a First University Degree or Equivalent

ISCED level 6 corresponds to U.S. postsecondary programs as reported in the following IPEDS level categories:

Bac	<i>Bachelor's Degree</i>
PBC	<i>Postbaccalaureate Certificate</i>

The Bachelor's Degree. The bachelor's degree is the basic first degree awarded in U.S. postsecondary education. It is the degree required in order to be eligible both for postgraduate (in the United States, graduate) studies and for those first professional degrees which are preceded by a bachelor's degree. In the United States bachelor's degrees are traditionally thought of as 4-year degrees, but this concept is becoming questionable on two counts. First, several professional bachelor's degree programs are longer than 4 years, including architecture (5 or 6 years), engineering (going to 5 years), and pharmacy (5 years). Second, research has demonstrated that students in other concentrations are tending to take longer than 4 years to complete the degree. Currently the mean time taken to earn a "4-year" bachelor's degree in any subject is approximately 5.5 calendar years.²⁶

ISCED requires the basic undergraduate, or "first" degree awarded by universities or equivalent institutions, to be reported at this level. The bachelor's degree fits that description in the United States and represents completion of a full undergraduate program of studies, which includes a concentration in at least one subject field. U.S. bachelor's degrees may or may not be equivalent to other first-university degrees, depending on the content and quality of an individual student's prior schooling and the content and quality of the bachelor's degree program being pursued at a given institution. These issues are not regulated in the United States at the national level and are outside the scope of the ISCED system. Therefore, no official guidance about the equivalency of any individual U.S. or foreign degree program is intended or should be inferred by this statistical interpretation of level 6.

The Postbaccalaureate Certificate. Postbaccalaureate certificates are infrequently awarded; when they are, they tend to represent an extra semester or more of work that enables a student to meet a professional requirement or earn credit for some academic specialization.

²⁶ See Nabeel Alsalam and Gayle Thompson Rogers, *The Condition of Education 1991 — Vol. 2: Postsecondary Education*, (Washington: U.S. Government Printing Office, June 1991), Indicator 2.6, pp.30-31 and 124-125. Time-to-bachelor's degree varies by field as well as by characteristics of the student population. As of 1986 data, only 45.5 percent of all respondents to the national Recent College Graduates Survey (RCG) reported taking 4 years or less to complete a bachelor's degree. The majority took between 4 and 6 years, while 27 percent took over 6 years.

Examples include earning the credits required for an entry-level teaching certificate; gaining credit for specialized computer skills; or obtaining a certificate of specialization in a subject such as a foreign language or area studies. Each of these examples pertains to an undergraduate program which is completed subsequent to earning the bachelor's degree, and therefore does not represent graduate-level study.

Since relatively few postbaccalaureate certificates are awarded, the following list presents the CIP codes for which significant PBC level IPEDS data are reported, together with the corresponding ISCED codes.

Programs Reporting Significant PBC Data, by ISCED Code		
ISCED Code	CIP Code	CIP Program Title
61401	13.0101	<i>Education, General</i>
	13.1202	<i>Elementary Teacher Education</i>
	13.1205	<i>Secondary Teacher Education</i>
61404	13.1302	<i>Art Teacher Education</i>
	13.1305	<i>English Teacher Education</i>
	13.1311	<i>Mathematics Teacher Education</i>
	13.1314	<i>Physical Education Teaching and Coaching</i>
	13.1316	<i>Science Teacher Education, General</i>
	13.1317	<i>Social Science Teacher Education</i>
61408	13.1401	<i>Teaching English as a Second Language/Foreign Language</i>
	13.1303	<i>Business Teacher Education</i>
61412	13.1204	<i>Pre-Elementary/Early Childhood/Kindergarten Teacher Education</i>
61422	13.1001	<i>Special Education, General</i>
61499	13.1101	<i>Counselor Education/Counseling and Guidance Services</i>
	13.1399	<i>Teacher Education, Specialized Academic and Vocational Programs, Other</i>
	13.9999	<i>Education, Other</i>
61822	50.0903	<i>Music — General Performance</i>
62600	39.0201	<i>Bible/Biblical Studies</i>

	39.0401	<i>Religious Education</i>
	39.0601	<i>Theology/Theological Studies</i>
	39.0699	<i>Theological and Ministerial Studies, Other</i>
	39.9999	<i>Theological Studies and Religious Vocations, Other</i>
63012	45.0601	<i>Economics, General</i>
63052	42.9999	<i>Psychology, Other</i>
63099	05.0207	<i>Women's Studies</i>
63401	52.0101	<i>Business, General</i>
	52.0201	<i>Business Administration and Management, General</i>
63432	52.0301	<i>Accounting</i>
63439	52.1101	<i>International Business</i>
63452	44.0401	<i>Public Administration</i>
63462	13.0401	<i>Education Administration and Supervision, General</i>
64601	27.0101	<i>Mathematics</i>
64641	11.0101	<i>Computer and Information Sciences, General</i>
	11.0401	<i>Information Sciences and Systems</i>
65012	51.1604	<i>Nursing Anesthetist</i>
65030	51.1004	<i>Medical Laboratory Technician</i>
	51.1005	<i>Medical Technology</i>
66612	19.0503	<i>Dietetics/Human Nutritional Services</i>
68932	19.0705	<i>Gerontological Services</i>

As can be seen from the reported data patterns, PBC level awards are most common in professional fields. Insignificant PBC data are also reported, particularly in the fields of engineering, area studies, foreign languages, allied health occupations, and business. PBC data are not presented elsewhere in chapter 8, but complete crosswalk instructions for such data are provided in the appendix.

601. General Programmes

60100. General Programmes. This program group code corresponds to U.S. degree programs which represent either: (a) an individualized program of studies designed by a student under faculty supervision and not corresponding to a regular major field; or (b) a structured program encompassing the interdisciplinary study of broad themes or issues, usually from a humanistic or social scientific perspective. It includes:

- Bac 24.0101: Liberal Arts and Sciences/Liberal Studies**
- 24.0102: General Studies**
- 24.0199: Liberal Arts and Sciences/General Studies and Humanities, Other**

614. Programmes in Education Science and Teacher-Training

The bachelor's degree is the basic entry-level qualification for persons seeking to become teachers at the PK-12 grade levels. Equivalent combinations of postsecondary education and work experience are accepted in some jurisdictions, especially as the movement toward alternative certification (which waives many traditional teacher education program requirements) gains acceptance. Post-baccalaureate certificates are sometimes earned by students who have completed an academic degree but wish to become certified to teach. Education fields other than teacher education are not frequently offered at the undergraduate level.

61401. General Teacher-Training Programmes. This program group code corresponds to data collected on unspecialized programs in education and programs that prepare students for teacher certification by grade level rather than by subject area. It includes:

- Bac 13.0101: Education, General**
- 13.1202: Elementary Teacher Education**
- 13.1203: Junior High/Intermediate/Middle School Teacher Education**
- 13.1205: Secondary Teacher Education**
- 13.1206: Teacher Education, Multiple Levels**
- 13.1299: General Teacher Education, Other**
- 13.1501: Teacher Assistant/Aide*

61404. Teacher-Training Programmes with Specialization in a Non-Vocational Subject. This program group code corresponds to U.S. data reported on the following programs which prepare subject-specific teachers in the academic and other non-vocational teaching specializations:

- Bac 13.1302: Art Teacher Education**

13.1305: English Teacher Education
13.1306: Foreign Languages Teacher Education, General
13.1307: Health Teacher Education
13.1311: Mathematics Teacher Education
13.1312: Music Teacher Education
13.1314: Physical Education Teaching and Coaching
13.1315: Reading Teacher Education
13.1316: Science Teacher Education, General
13.1317: Social Science Teacher Education, General
13.1318: Social Studies Teacher Education
13.1321: Computer Teacher Education
13.1322: Biology Teacher Education
13.1323: Chemistry Teacher Education
13.1324: Drama and Dance Teacher Education
13.1325: French Language Teacher Education
13.1326: German Language Teacher Education
13.1328: History Teacher Education
13.1329: Physics Teacher Education
13.1330: Spanish Language Teacher Education
13.1331: Speech Teacher Education
13.1401: Teaching English as a Second Language/Foreign Language

61408. Teacher-Training Programmes for Teachers of Practical or Vocational Subjects.
 This program group code corresponds to U.S. data reported on the following programs which prepare subject-specific teachers in the vocational and related teaching specializations:

Bac **13.1301: Agricultural Teacher Education**
 13.1303: Business Teacher Education
 13.1304: Driver and Safety Teacher Education
 13.1308: Home Economics Teacher Education
 13.1309: Technology/Industrial Arts Teacher Education
 13.1310: Marketing Operations/Marketing and Distribution Teacher Education
 13.1319: Technical Teacher Education
 13.1320: Trade and Industrial Teacher Education
 13.1327: Health Occupations Teacher Education

61412. Teacher-Training Programmes for Teaching Pre-School or Kindergarten. This program group code corresponds to U.S. data reported for the following program preparing teachers specializing in prekindergarten (nursery school) and kindergarten:

**Bac 13.1204: Pre-Elementary/Early Childhood/Kindergarten
Teacher Education**

61416. Teacher-Training Programmes for Teachers in Adult Education. This program group code corresponds to U.S. data reported for the following program preparing teachers specializing in adult basic education (literacy, basic skills, and high school equivalency programs) and continuing education:

Bac 13.1201: Adult and Continuing Teacher Education

61422. Teacher-Training for Teaching Handicapped Children. This program group code corresponds to U.S. data reported on the following programs preparing teachers specializing in the education of students with handicapping conditions or learning disabilities:

- Bac 13.1001: Special Education, General**
13.1003: Education of the Deaf and Hearing Impaired
13.1005: Education of the Emotionally Handicapped
13.1006: Education of the Mentally Handicapped
13.1007: Education of the Multiple Handicapped
13.1008: Education of the Physically Handicapped
13.1009: Education of the Blind and Visually Impaired
13.1011: Education of the Specific Learning Disabled
13.1012: Education of the Speech Impaired
13.1099: Special Education, Other

61432. Teacher Training for Teacher Trainers. No U.S. program data corresponding to this ISCED program group code exist. "Teacher trainers" other than faculty in postsecondary institutions do not exist, and faculty are prepared at the graduate level (ISCED level 7) in the various subject fields in which they teach and conduct research.

61472. Programmes in Education Science Without Teacher Training. This program group code needs to be inserted at ISCED level 6 in order to report data accurately on U.S. programs at the bachelor's degree level which provide students with an introduction to the academic study of education as a research field, rather than teacher preparation. ISCED code 61472 corresponds to:

- Bac 13.0301: Curriculum and Instruction**
13.0601: Educational Evaluation and Research
13.0603: Educational Statistics and Research Methods
13.0802: Educational Psychology

61499. Other Specialized Teacher-Training Programmes. This program group code corresponds to U.S. data reported on programs that prepare specialized teachers, counselors, and other school personnel and do not fit under other ISCED program group codes in this field at level 6, including:

- Bac 13.0201: Bilingual/Bicultural Education**
- 13.0501: Educational/Instructional Media Design**
- 13.1004: Education of the Gifted and Talented**
- 13.1101: Counselor Education/Counseling and Guidance Services**
- 13.1399: Teacher Education, Specialized Academic and Vocational Programs, Other**
- 13.9999: Education, Other**

618. Fine and Applied Arts Programmes

U.S. postsecondary programs at this level in the visual and performing arts consist of both academic and professionally oriented offerings. The instructional activity takes place in colleges and universities as well as independent schools (academies, conservatories) specializing in one or more of the arts.

61801. General Programmes of Art Studies. Programs of this type as defined in ISCED are either survey and appreciation programs or professionally oriented programs that are not differentiated by medium or discipline, primarily in the visual and applied arts. This program group code corresponds to:

- Bac 50.0401: Design and Visual Communications**
- 50.0701: Art, General**
- 50.0702: Fine/Studio Arts**

61802. Programmes in the History and Philosophy of Art. This program group code should be inserted at level 6 (it appears only at level 7) to report data accurately on U.S. bachelor's programs in art history and conservation. It corresponds to:

- Bac 50.0703: Art History, Criticism, and Conservation**

61804. Programmes in Drawing and Painting. According to the ISCED definition, this program group code encompasses data collected on printmaking programs as well as traditional drawing and painting programs. Corresponding U.S. program data codes include:

- Bac 50.0705: Drawing**
- 50.0708: Painting**

50.0710: Printmaking

61808. Programmes in Sculpturing. This program group code corresponds to U.S. data reported for the following program:

Bac 50.0709: Sculpture

61812. Programmes in Handicrafts. This program group code must be inserted at level 6 (it appears only at level 5) to report data accurately on U.S. bachelor's degree programs in the folk arts and crafts. These artistic disciplines are frequently taught in U.S. fine arts programs and are regarded as legitimate subjects of advanced study as part of the national cultural heritage. ISCED code 61812 includes:

Bac 50.0201: Crafts, Folk Art, and Artisanry
50.0711: Ceramic Arts and Ceramics
50.0712: Fiber, Textile, and Weaving Arts
50.0713: Metal and Jewelry Arts

61822. Programmes in Music. This program group code corresponds to U.S. data reported for general programs in music (including surveys and appreciation), programs in music scholarship and research, and programs that prepare musical performing artists and managers. It includes:

Bac 50.0901: Music, General
50.0902: Music History and Literature
50.0903: Music —General Performance
50.0904: Music Theory and Composition
50.0905: Musicology and Ethnomusicology
50.0906: Music Conducting
50.0907: Music —Piano and Organ Performance
50.0907: Music —Voice and Choral/Opera Performance
50.0909: Music Business Management and Merchandising
50.0999: Music, Other

61832. Programmes in the Drama. This program group code corresponds to data reported on U.S. bachelor's degree programs in drama studies and appreciation as well as programs preparing performing artists, writers, and theatre production personnel:

Bac 50.0501: Drama/Theatre Arts, General
50.0502: Technical Theatre/Theatre Design and Stagecraft
50.0503: Acting and Directing

50.0599: Drama/Theatre Arts and Stagecraft, Other

61842. Programmes in Photography and Cinematography. This program group code should be inserted at level 6 (it appears at level 5) in order to report data accurately on U.S. bachelor's degree programs in photography and film. Such programs prepare professional photographers and movie industry personnel and serve as the basis for further academic study and research. ISCED code 61842 includes:

- Bac 10.0103: Photographic Technology/Technician**
 - 50.0406: Commercial Photography*
 - 50.0601: Film/Cinema Studies**
 - 50.0602: Film-Video Making/Cinematography and Production**
 - 50.0605: Photography**
 - 50.0699: Film/Video and Photographic Arts, Other**

61852. Programmes in Interior Design. This program group code corresponds to U.S. bachelor's degree data reported for the following program code:

- Bac 50.0408: Interior Design**

61899. Other Fine and Applied Arts Programmes. This program group code corresponds to U.S. data reported for a variety of arts programs which do not correspond to any other ISCED program group code at this level:

- Bac 50.0101: Visual and Performing Arts**
 - 50.0301: Dance**
 - 50.0402: Graphic Design, Commercial Art and Illustration**
 - 50.0404: Industrial Design**
 - 50.0407: Fashion Design and Illustration**
 - 50.0499: Design and Applied Arts, Other**
 - 50.0704: Arts Management**
 - 50.0706: Intermedia**
 - 50.0799: Fine Arts and Art Studies, Other**
 - 50.9999: Visual and Performing Arts, Other**

622. Humanities Programs

U.S. humanities programs at the bachelor's degree level usually provide a focused introduction to the study of the field of concentration designed to provide either a terminal academic experience or the groundwork for further study and research. The generalized character of U.S. undergraduate liberal arts programs is useful for both aims, for it permits

the humanities major to augment the introduction to the major field with other appropriate studies. Examples of such undergraduate combinations could include such subjects as business or pre-law (for someone planning to enter a professional program); science or engineering (for someone planning to combine technical expertise with scholarly research); or foreign languages and the social sciences (for someone preparing to enter graduate school in a humanities discipline).

While this crosswalk follows ISCED practice, it should be noted that in the U.S. religious studies and art studies programs (art history, music history, drama studies, film studies, general visual/performing arts studies) are considered to be humanities subjects and their program data would be reported domestically in this category.

62201. General Programmes in the Humanities. This program group code corresponds to U.S. data reported for the following program, which represents the interdisciplinary or individually designed study of the humanities:

Bac 24.0103: Humanities/Humanistic Studies

62202. Programmes for Interpreters and Translators. This program group code corresponds to U.S. data reported for the following program code, which covers programs preparing translators and interpreters:

Bac 16.0103: Foreign Language Interpretation and Translation

62208. Other Programmes in Languages, Except the Current or Vernacular Language. This program group code should be inserted at level 6 (it appears only at level 5) to report data consistently on U.S. programs in foreign languages in which the specific language studied is not identified by name. The code corresponding to this concept are:

Bac 16.0101: Foreign Languages and Literatures, General

62211. Programs in the Current or Vernacular Language and Its Literature. This program group code corresponds, in U.S. terms, to data reported for various bachelor's degree programs in English. It includes:

Bac 23.0101: English Language and Literature, General
23.0401: English Composition
23.0501: English Creative Writing
23.0701: American Literature (United States)
23.0801: English Literature (British and Commonwealth)
23.1001: Speech and Rhetorical Studies

62241. Programmes in Comparative Literature. This program group code corresponds to U.S. data reported for the following program:

Bac 23.0301: Comparative Literature

62251. Programmes in History. This program group code corresponds to U.S. data reported for bachelor's degree programs in history and related fields. It includes:

Bac 45.0801: History, General

45.0802: American (United States) History

45.0804: History and Philosophy of Science and Technology

45.0899: History, Other

62261. Programmes in Archaeology. This program group code corresponds to U.S. data reported for the following program:

Bac 45.0301: Archaeology

62271. Programmes in Philosophy. This program group code corresponds to U.S. data reported for the following program:

Bac 38.0101: Philosophy

62299. Other Humanities Programs. This program group code corresponds to U.S. data reported for a variety of humanities programs which do not correspond to any other ISCED program group code at this level:

Bac 05.0205: Jewish/Judaic Studies

30.1301: Medieval and Renaissance Studies

626. Religion and Theology Programmes

Programs in religion studies and the theological vocations are reported separately inside the United States, but are combined here following ISCED practice. In public colleges and universities religious studies programs are academic in nature and are normally classified as part of the humanities. This is the case as well in private institutions, which also may offer direct preparation for religious vocations. Religion programs in both public and private institutions also prepare students for further study, either graduate-level academic studies or professional theological training. Most of the larger faith communities inside the United

- 23.1101: English Technical and Business Writing**
- 23.9999: English Language and Literature/Letters, Other**

62215. Programmes in Other Living Languages and Their Literature. This program group code corresponds to data reported for U.S. programs in modern foreign languages at the bachelor's degree level. Foreign language programs at this level are designed to introduce students to a language and its literature, to build competency, and to prepare interested students for further study. It includes:

- Bac 16.0301: Chinese Language and Literature**
- 16.0302: Japanese Language and Literature**
- 16.0399: East and Southeast Asian Languages and Literatures, Other**
- 16.0402: Russian Language and Literature**
- 16.0403: Slavic Languages and Literatures (Other Than Russian)**
- 16.0499: East European Languages and Literatures, Other*
- 16.0501: German Language and Literature**
- 16.0502: Scandinavian Languages and Literatures**
- 16.0599: Germanic Languages and Literatures, Other**
- 16.0602: Greek Language and Literature (Modern)*
- 16.0703: South Asian Languages and Literatures*
- 16.0901: French Language and Literature**
- 16.0902: Italian Language and Literature**
- 16.0904: Portuguese Language and Literature**
- 16.0905: Spanish Language and Literature**
- 16.0999: Romance Languages and Literatures, Other**
- 16.1101: Arabic Language and Literature*
- 16.1102: Hebrew Language and Literature**
- 16.1199: Middle Eastern Languages and Literatures, Other*
- 16.9999: Foreign Languages and Literatures, Other**

62221. Programmes in "Dead" Languages and Their Literatures. This program group code corresponds to data reported for U.S. programs in classics and ancient languages at the bachelor's degree level. Such programs, at the bachelor's degree level, are designed to introduce students to the language, its literature, and its historical/cultural context. Students are prepared for further study if they so choose. It includes:

- Bac 16.1201: Classics and Classical Languages and Literatures**
- 16.1202: Greek Language and Literature (Ancient and Medieval)**
- 16.1203: Latin Language and Literature (Ancient and Medieval)**
- 16.1299: Classical and Ancient Near Eastern Languages and Literatures, Other*

45.0603: *Econometrics and Quantitative Economics*
45.0605: *International Economics*
45.0699: **Economics, Other**

63022. Programs in Political Science. This program group code, as defined in ISCED, corresponds to data reported on bachelor's degree programs in international relations and political science. It includes:

Bac 45.0901: **International Relations and Affairs**
45.1001: **Political Science, General**
45.1099: **Political Science and Government, Other**

63032. Programmes in Sociology. This program group code corresponds to data reported on bachelor's degree programs in sociology. It includes:

Bac 45.1101: **Sociology**

63042. Anthropology Programmes. This program group code corresponds to data reported on bachelor's degree programs in anthropology. It includes:

Bac 45.0201: **Anthropology**

63052. Programmes in Psychology. Psychology programs at the bachelor's level serve as terminal programs for students entering other fields where a knowledge of psychology is useful (such as medicine, theology, business, and education) and as foundations for further study in psychology itself. Licensure as a clinical practitioner and qualification as a researcher generally requires at least a master's degree in the appropriate subfield of the discipline. This program group code corresponds to:

Bac 42.0101: **Psychology, General**
42.0201: **Clinical Psychology**
42.0301: **Cognitive Psychology and Psycholinguistics**
42.0401: **Community Psychology**
42.0601: **Counseling Psychology**
42.0701: **Developmental and Child Psychology**
42.0801: *Experimental Psychology*
42.0901: **Industrial and Organizational Psychology**
42.1101: **Physiological Psychology/Psychobiology**
42.1601: **Social Psychology**
42.9999: **Psychology, Other**

States (Baptist, Episcopalian, Jewish, Lutheran, Methodist, Presbyterian, Roman Catholic) require a first-professional or graduate degree prior to ordination. Bachelor's degree programs, as a consequence, tend to be general and preparatory rather than terminal.²⁷

62600. Religion and Theology Programmes. This program group code corresponds to data collected on sub-bachelor's degree religious studies programs and on programs preparing students for a variety of religious vocations:

- Bac 38.0201: Religion/Religious Studies**
- 39.0101: Biblical and Other Theological Languages and Literatures**
- 39.0201: Bible/Biblical Studies**
- 39.0301: Missions/Missionary Studies and Missiology**
- 39.0401: Religious Education**
- 39.0501: Religious/Sacred Music**
- 39.0601: Theology/Theological Studies**
- 39.0603: Rabbinical and Talmudic Studies (MHL/Rav)**
- 39.0604: Pre-Theological/Pre-Ministerial Studies**
- 39.0699: Theological and Ministerial Studies, Other**
- 39.0701: Pastoral Counseling and Specialized Ministries*
- 39.9999: Theological Studies and Religious Vocations, Other**

630. Social and Behavioural Science Programmes

The observations made about humanities programs at the U.S. equivalent of ISCED level 6 (see broad field 622, above) also apply to social sciences programs.

63001. General Programmes in the Social and Behavioural Sciences. This program group code corresponds to U.S. data reported for the following code, representing social sciences programs which are interdisciplinary or not identified by field:

- Bac 45.0101: Social Sciences, General**

63012. Programmes in Economics. This program group code corresponds to U.S. data reported for bachelor's degree programs in economics. It includes:

- Bac 45.0601: Economics, General**
- 45.0602: Applied and Resource Economics*

²⁷ See the corresponding note under ISCED broad field 526 in chapter 7.

63062. Geography Programmes. This program group code corresponds to data reported on bachelor's degree programs in geography and cartography. It includes:

- Bac 45.0701: Geography
- 45.0702: Cartography

63072. Studies of Regional Cultures. This program group code corresponds to U.S. data reported for bachelor's degree programs in area studies. A typical undergraduate concentration in area studies consists of coursework from different disciplines focusing on a specific region but usually includes a core discipline (geography, economics, etc.) which serves as the conceptual/methodological framework. The better programs also include foreign language study, generally of a *lingua franca* in the region studied. ISCED code 63072 includes:

- Bac 05.0101: African Studies
- 05.0102: American Studies/Civilization
- 05.0103: Asian Studies
- 05.0104: East Asian Studies
- 05.0105: Eastern European Area Studies
- 05.0106: European Studies
- 05.0107: Latin American Studies
- 05.0108: Middle Eastern Studies
- 05.0110: Russian and Slavic Area Studies
- 05.0111: Scandinavian Area Studies
- 05.0112: South Asian Studies
- 05.0113: Southeast Asian Studies
- 05.0114: Western European Studies
- 05.0115: Canadian Studies
- 05.0199: Area Studies, Other

63099. Other Programmes in Social and Behavioural Science. U.S. institutions offer other focused study programs similar to area studies but dealing with minority group issues, urban issues, and issues pertaining to women. Like area studies, these fields constitute interdisciplinary approaches to the subjects they address, and may be terminal programs or prepare students to continue such studies at the graduate level. ISCED code 53099 corresponds to:

- Bac 05.0201: Afro-American (Black) Studies
- 05.0202: American Indian/Native American Studies
- 05.0203: Hispanic-American Studies
- 05.0207: Women's Studies
- 05.0299: Ethnic and Cultural Studies, Other
- 05.9999: Area, Ethnic, and Cultural Studies, Other

45.0501: Demography/Population Studies
45.1201: Urban Affairs/Studies
45.9999: Social Sciences and History, Other

634. Business Administration and Related Programmes

This ISCED broad field is the appropriate place to report data on U.S. bachelor's degree programs in business-related fields as well (as defined in ISCED) as public administration and administrative services related to schools, health care, and non-profit organizations. Some marketing operations program data (CIP Series 08.) are also reported here, specifically those data relating to general retailing and wholesaling services. Bachelor's degree business programs prepare students for immediate job entry or for further study. In many cases the programs are similar in content to longer business programs at the less-than-4-year level (level 5), with the addition of the general education requirements characteristic of U.S. bachelor's degrees. Business programs thus share with health care programs (see broad fields 550 and 650) the tendency to be offered at both degree levels, with the distinction being that the bachelor's degree programs represent completion of a full undergraduate course of studies. Students earning bachelor's degrees in business outnumber those earning bachelor's degrees in any other subject field.²⁸

U.S. bachelor's degrees in the medical records fields follow the pattern discussed above for business degrees; they are longer counterparts of the corresponding associate's degree programs. Bachelor's degrees in the health and education administration fields, and in public administration, do not represent terminal qualifications. Professional administrators and researchers in these fields usually possess graduate-level degrees.

63401. General Programmes in Business Administration (Commerce). General business programs at this level provide either an introduction to business administration or constitute business programs which do not have titles indicating a specialty. This program group code corresponds to:

Bac **52.0101: Business, General**
 52.0201: Business Administration and Management, General

63404. Secretarial Programmes. This program group code should be inserted at level 6 (it appears at levels 3 and 5) in order to report data consistently for U.S. programs in secretarial and executive assistant services at the bachelor's degree level. These programs at

²⁸ See various editions of the *Digest of Education Statistics* (Washington: U.S. Government Printing Office, annual), the yearly summary of national education data produced by the National Center for Education Statistics. IPEDS data tapes furnished to various domestic and international users also indicate the pattern of degree completions by CIP code for each reporting year.

level 6 combine the office and business skills training also attained at the associate degree level (level 5) with the general education program required for a bachelor's degree. This program group code corresponds to:

- Bac** **52.0401: Administrative Assistant/Secretarial Science, General**
 52.0402: Executive Assistant/Secretary
 52.0403: *Legal Administrative Assistant/Secretary*
 52.0404: *Medical Administrative Assistant/Secretary*
 52.0405: Court Reporter
 52.0499: *Administrative and Secretarial Services, Other*

63408. Clerical-Typists Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately on U.S. programs in office support skills which use the code title listed below. At the bachelor's degree level these programs are not basic clerical training but rather office assistant programs similar to secretarial offerings listed under 63404. ISCED code 63408 includes:

- Bac** **52.0408: General Office/Clerical and Typing Services**

63426. Programmes in Electronic Data Processing. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately on U.S. programs in business data processing and management information systems. This program group code, as defined in ISCED, corresponds to:

- Bac** **52.1201: Management Information Systems and Business Data**
 Processing, General
 52.1202: Business Computer Programming/Programmer
 52.1203: Business Systems Analysis and Design

63432. Accountancy Programmes. This program group code corresponds to U.S. data reported for bachelor's degree programs in accounting and related fields. It includes:

- Bac** **52.0301: Accounting**
 52.0302: Accounting Technician

63434. Business Administration, Marketing and Sales Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data consistently for U.S. programs in business marketing and related fields. ISCED code 63434 includes:

- Bac** 08.0701: *Auctioneering*
 08.0704: *General Buying Operations*

08.0705: General Retailing Operations
 08.0706: General Selling Skills and Sales Operations
 08.0708: General Marketing Operations
 08.0799: General Retailing and Wholesaling Operations
 and Skills, Other
 09.0201: Advertising
 52.1401: Business Marketing and Marketing Management, General
 52.1402: Marketing Research
 52.1403: International Business Marketing
 52.1499: Marketing Management and Research, Other

63436. Programmes in Financial Management and Investment Analysis. This program group code should be inserted at level 6 (it appears only at level 5) to report data consistently for U.S. programs in business finance and related fields. ISCED code 63436 includes:

Bac 52.0801: Finance, General
 52.0803: Banking and Financial Support Services
 52.0804: *Financial Planning*
 52.0805: Insurance and Risk Management
 52.0805: *International Finance*
 52.0807: Investments and Securities
 52.0899: Financial Management and Services, Other

63439. Programmes in Business Administration with Other Specialization. A great many business administration specialties are not assigned separate categories in ISCED. Data reported on these programs needs to be assigned to the "other" program group. This program group code, as defined in ISCED, corresponds to:

Bac 08.0301: Entrepreneurship
 52.0202: Purchasing, Procurement and Contracts Management
 52.0203: Logistics and Materials Management
 52.0204: Office Supervision and Management
 52.0205: Operations Management and Supervision
 52.0299: Business Administration and Management, Other
 52.0601: Business/Managerial Economics
 52.0701: Enterprise Management and Operation, General
 52.0901: Hospitality Administration/Management
 52.0902: Hotel/Motel and Restaurant Management
 52.0903: Travel and Tourism Management
 52.0901: Hospitality Services Management, Other
 52.1001: Human Resources Management
 52.1002: Labor/Personnel Relations and Studies
 52.1101: International Business

- 52.1301: Management Science**
- 52.1301: Business Quantitative Methods and Management Science, Other**
- 52.1501: Real Estate**
- 52.9999: Business Management and Administrative Services, Other**

63452. Programmes in Public Administration. This program group code as defined in ISCED corresponds to data reported for U.S. programs in public administration, which prepare students both for public service careers and for the advanced study of government operations. Public sector workers and managers do not need to specialize in public administration and usually do not. (They are usually educated in a field related to what they are hired to do, such as law, accounting, management, health care, etc.) Public administration is often treated as a branch of political science and programs in it are frequently offered by faculty in the latter discipline. ISCED code 63452 includes:

- Bac 44.0401: Public Administration**
- 44.0501: Public Policy Analysis**
- 44.9999: Public Administration and Services, Other**

63462. Programmes in Institutional Administration. This program group code does not correspond to the way that U.S. programs in education, health care, and nonprofit organization administration are treated. In U.S. data reporting, programs in the administration of these activities are included under the subject categories rather than as a separate heading under business administration. The administrative programs cited in the definition of this program group are reported here in order to accommodate the ISCED system. ISCED code 63462 includes:

- Bac 13.0401: Education Administration and Supervision, General**
- 13.0402: Administration of Special Education*
- 13.0406: Higher Education Administration*
- 13.0499: Education Administration and Supervision, Other*
- 51.0701: Health System/Health Services Administration**
- 51.0702: Hospital/Health Facilities Administration**
- 51.0706: Medical Records Administration**
- 51.0707: Medical Records Technology/Technician*
- 51.0799: Health and Medical Administrative Services, Other**
- 52.0206: Non-Profit and Public Management*

638. Law and Jurisprudence Programmes

ISCED defines this broad field as pertaining to the training of attorneys and *notaires*. The

former are trained in graduate-level law schools in the United States, while the latter do not exist in the U.S. legal system. (The concept of a notary exists, but is a comparatively low-level function which requires no specific academic training. It is a job often fulfilled by specially licensed legal secretaries in law offices.) U.S. programs in law at the bachelor's degree level consist of preparatory programs for students planning to enter law school, as well as programs for legal assistants.

63801. General Programmes in Law. Professional legal education programs in the United States are first-professional programs occurring after the bachelor's degree or its equivalent is earned. At the bachelor's degree level the following related programs are reported:

Bac 22.0102: Pre-Law Studies
22.0103: Paralegal/Legal Assistant

63812. Programmes for "Notaires." No U.S. program data corresponding to this program group code exist.

63899. Other Law and Jurisprudence Programmes. This program group code should be inserted at level 6 (it appears only at level 7) to report data accurately on U.S. bachelor's degree programs in legal studies which are not elsewhere classified. It corresponds to:

Bac 22.0199: Law and Legal Studies, Other

642. Natural Science Programmes

This ISCED broad field describes both biological and physical sciences programs at the bachelor's degree level. Bachelor's degrees in the sciences prepare students for advanced study in the same or a related field or for entry into a first professional degree program such as medicine.

64202. Biological Science Programmes. This program group code as defined in ISCED corresponds to data reported on the entire range of biological science programs, which is an extensive and growing list. ISCED code 64202 includes:

Bac 26.0101: Biology, General
26.0202: Biochemistry
26.0203: Biophysics
26.0301: Botany, General
26.0305: Plant Pathology
26.0399: Botany, Other
26.0401: Cell Biology

26.0402: Molecular Biology
26.0499: Cell and Molecular Biology, Other
26.0501: Microbiology/Bacteriology
26.0601: Anatomy
26.0603: Ecology
26.0607: Marine/Aquatic Biology
26.0608: Neuroscience
26.0609: Nutritional Sciences
26.0612: Toxicology
26.0613: Genetics, Plant and Animal
26.0614: Biometrics
 26.0615: *Biostatistics*
 26.0616: *Biotechnology Research*
26.0699: Miscellaneous Biological Specializations, Other
26.0701: Zoology, General
26.0702: Entomology
 26.0704: *Pathology, Human and Animal*
 26.0705: *Pharmacology, Human and Animal*
26.0706: Physiology, Human and Animal
26.9999: Biological Sciences/Life Sciences, Other

64212. Chemistry Programmes. This program group code corresponds to U.S. data reported for the following undergraduate programs in chemistry:

Bac 40.0501: Chemistry, General
 40.0504: *Organic Chemistry*
 40.0505: *Medicinal/Pharmaceutical Chemistry*
40.0506: Physical and Theoretical Chemistry
40.0599: Chemistry, Other

64222. Geological Science Programmes. This program group code corresponds to U.S. data reported for the following undergraduate programs in geology and related sciences:

Bac 40.0601: Geology
 40.0602: *Geochemistry*
40.0603: Geophysics and Seismology
 40.0604: *Paleontology*
40.0699: Geological and Related Sciences, Other

64232. Physics Programmes. This program group code corresponds to U.S. data reported for the following undergraduate programs in physics:

- Bac 40.0801: Physics, General**
40.0802: Chemical and Atomic/Molecular Physics
40.0807: Optics
40.0899: Physics, Other

64242. Astronomy Programmes. This program group code corresponds to U.S. data reported for the following undergraduate programs in astronomy and astrophysics:

- Bac 40.0201: Astronomy**
40.0301: Astrophysics

64252. Meteorology Programmes. This program group code corresponds to U.S. data reported for the following undergraduate program in atmospheric sciences and meteorology:

- Bac 40.0401: Atmospheric Sciences and Meteorology**

64262. Oceanography Programmes. This program group code corresponds to U.S. data reported for the following undergraduate program in oceanography:

- Bac 40.0702: Oceanography**

64299. Other Natural Science Programmes. General programs in the physical sciences which emphasize no specific discipline, as well as multidisciplinary programs and a few specific programs in other science fields are offered at this level in the United States. This program group code as defined in ISCED corresponds to:

- Bac 30.0101: Biological and Physical Sciences**
30.0601: Systems Science and Theory
40.0101: Physical Sciences, General
40.0701: Metallurgy
40.0703: Earth and Planetary Sciences
40.0799: Miscellaneous Physical Sciences, Other
40.9999: Physical Sciences, Other

646. Mathematics and Computer Science Programmes

Data on both of these program Series are combined in this ISCED broad field, although they are reported separately within the United States. Bachelor's degrees in both the mathematical and computer fields may lead to immediate employment or further study in the same or related fields.

64601. General Programmes in Mathematics. This program group code corresponds to U.S. data reported for the following undergraduate programs in mathematics:

Bac 27.0101: Mathematics

64611. Programmes in Statistics. This program group code corresponds to U.S. data reported for the following undergraduate programs in statistics:

Bac 27.0501: Mathematical Statistics

64621. Programmes in Actuarial Science. Actuarial science programs are classified as a business application in the United States, since the field primarily prepares technical experts employed in the insurance and risk assessment industries. This program group code corresponds to U.S. data reported for the following undergraduate program in actuarial science:

Bac 52.0802: Actuarial Science

64639. Other Programmes in Mathematics. Other mathematics programs for which undergraduate data are reported in the United States include:

Bac 27.0301: Applied Mathematics, General
27.0302: Operations Research
27.9999: Mathematics, Other
30.0801: Mathematics and Computer Science

64641. Programmes in Computer Science. This program group code corresponds to U.S. data reported for the following undergraduate programs in computer and information sciences and general applications:

Bac 11.0101: Computer and Information Sciences, General
11.0201: Computer Programming
11.0301: Data Processing Technology/Technician
11.0401: Information Sciences and Systems
11.0501: Computer Systems Analysis
11.0701: Computer Science
11.9999: Computer and Information Sciences, Other

650. Medical Diagnostic and Treatment Programmes

The following listing corresponds to those U.S. program codes in these categories for which data at this level are reported. As with business (see broad fields 534 and 634), there is a tendency for many allied health fields to be offered at both the bachelor's and associate's degree levels. The increased reliance on high-tech equipment and an increased reliance on allied health professionals and nurses instead of physicians in primary care situations has resulted in a gradual increase in the level of education required for licensure in these occupational fields. Many health care programs are now offered, and completed, at all three ISCED postsecondary levels (5, 6, and 7).

65002. Programmes in Hygiene. This program group code is the appropriate location for reporting data for U.S. bachelor's degree programs in public health and related fields. Undergraduate professional degrees in public health frequently require 5 years of study; master's degrees are even more common as the basic professional credential. ISCED code 65002 corresponds to:

- Bac 51.0301: Community Health Liason**
- 51.2201: Public Health, General**
- 51.2202: Environmental Health**
- 51.2205: Health Physics/Radiologic Health*
- 51.2206: Occupational Health and Industrial Hygiene*
- 51.2207: Public Health Education and Promotion**
- 51.2299: Public Health, Other**

65006. Programmes in Medicine and Surgery. Professional medical education programs in the United States are first-professional programs occurring after the bachelor's degree or its equivalent is earned. At the bachelor's degree level the following related programs are reported:

- Bac 51.0807: Physician Assistant**
- 51.1102: Pre-Medicine Studies**

65008. Rehabilitation Medicine Programmes. This program group code is interpreted to include all therapeutic and rehabilitation programs (despite its title), as they form a coherent group of related fields and there is no other appropriate place to report them together in ISCED. Therapeutic and rehabilitation programs at Level 6 are bachelor's degrees in allied health fields leading to entry-level jobs or further study. As defined, ISCED code 55008 corresponds to:

- Bac 51.2301: Art Therapy**
- 51.2302: Dance Therapy*

51.2303: Music Therapy
51.2306: Occupational Therapy
51.2307: Orthotics/Prosthetics
51.2308: Physical Therapy
51.2309: Recreational Therapy
51.2310: Vocational Rehabilitation Counseling
51.2399: Rehabilitation/Therapeutic Services, Other

65012. Programmes in Nursing. U.S. nursing programs at the bachelor's degree level parallel those offered at the less-than-4-year level: programs training registered nurses (fully licensed professional practitioners); and programs training practical nurses (general care workers with limited licenses). The professional curricula for both levels is the same, but the ancillary general liberal arts subjects are only required at the bachelor's level. An ongoing debate exists as to which approach is better. Programs are also offered in various nursing specialities. ISCED code 65012 corresponds to:

Bac 51.1601: Nursing (R.N. Training)
51.1602: Nursing Administration
51.1603: Nursing, Adult Health
51.1604: Nursing Anesthetist
51.1608: Nursing Science
51.1611: Nursing, Public Health
51.1612: Nursing, Surgical
51.1613: Practical Nurse (L.P.N. Training)
51.1699: Nursing, Other

65015. Midwifery Programmes. In the United States, specifically designated midwifery programs are a subspecialty of the nursing profession and lead to the award of a bachelor's or higher degree. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately on the few such program completions currently reported. (At present, these data are insignificant and at the PBC level only for CIP code 51.1607: Nursing Midwifery.)

65017. Programmes in Medical X-Ray Techniques. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately on U.S. bachelor's degree programs in radiologic technology. It includes:

Bac 51.0907: Medical Radiologic Technology/Technician

65019. Other Programmes in Medical Diagnostic and Treatment Techniques Except Dental Techniques. This program group code should be inserted at level 6 (it appears only

at level 5) to report data accurately on U.S. bachelor's degree programs in medical diagnostic and treatment services other than radiologic technology (see 65017, above). It includes:

- Bac** **51.0901: Cardiovascular Technology/Technician**
 51.0903: Electroencephalograph Technology/Technician
 51.0904: Emergency Medical Technology/Technician
 51.0905: Nuclear Medical Technology/Technician
 51.0908: Respiratory Therapy Technician
 51.0910: Diagnostic Medical Sonography Technician
 51.0999: Health and Medical Diagnostic and Treatment Services,
 Other

65030. Medical Technology Programmes. This program group code corresponds to U.S. data reported for undergraduate programs in medical technology and related laboratory specialties. It includes:

- Bac** *51.1001: Blood Bank Technology/Technician*
 51.1002: Cytotechnologist
 51.1004: Medical Laboratory Technician
 51.1005: Medical Technology
 51.1099: Health and Medical Laboratory Technologies/
 Technicians, Other

65042. Programmes in Dentistry, Stomatology, Odontology. Professional medical education programs in the United States occur after the bachelor's degree or its equivalent is earned. At the bachelor's degree level, the following related program is reported:

- Bac** **51.1101: Pre-Dentistry Studies**

65046. Other Programmes in Dental Techniques. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately on U.S. bachelor's degree programs in dental services. It includes:

- Bac** **51.0602: Dental Hygienist**
 51.0603: Dental Laboratory Technician

65052. Programmes in Pharmacy. U.S. professional bachelor of pharmacy programs are 5- or 6-year programs; they are currently being phased out and replaced by a first-professional doctor of pharmacy program which requires prior possession of a bachelor's degree. Pharmacy programs at this level include:

- Bac** 51.1103: *Pre-Pharmacy Studies*
 51.2003: *Medical Pharmacology and Pharmaceutical Sciences*
 51.2099: *Pharmacy, Other*

65062. Optometry Programmes. Optometry is a graduate-level professional program in the United States which requires a bachelor's degree or the equivalent for entry. At the bachelor's level, data are reported for the following related program code:

- Bac** 51.1899: *Ophthalmic/Optometric Services, Other*

65099. Other Medical Diagnostic and Treatment Programmes. A large number of U.S. health professions programs cannot be reported separately because there are no corresponding program group codes assigned in ISCED. They include:

- Bac** 51.0201: *Communication Disorders, General*
 51.0202: *Audiology/Hearing Sciences*
 51.0203: *Speech-Language Pathology*
 51.0204: *Speech-Language Pathology and Audiology*
 51.0205: *Sign Language Interpreter*
 51.0299: *Communication Disorders Sciences and Services, Other*
 51.0704: *Health Unit Manager/Ward Supervisor*
 51.0801: *Medical Assistant*
 51.1199: *Health and Medical Preparatory Programs, Other*
 51.1302: *Medical Biochemistry*
 51.1304: *Medical Physics/Biophysics*
 51.1305: *Medical Cell Biology*
 51.1308: *Medical Microbiology*
 51.1313: *Medical Physiology*
 51.1399: *Basic Medical Sciences, Other*
 51.1501: *Alcohol/Drug Abuse Counseling*
 51.1502: *Psychiatric/Mental Health Services Technician*
 51.1503: *Clinical and Medical Social Work*
 51.1599: *Mental Health Services, Other*
 51.2701: *Acupuncture and Oriental Medicine*
 51.2703: *Medical Illustrating*
 51.2705: *Psychoanalysis*
 51.9999: *Health Professions and Related Sciences, Other*

652. Trade, Craft and Industrial Programmes, n.e.c.

This ISCED broad field should be inserted in order to report data accurately and consistently for U.S. programs classified under it which are offered at the bachelor's degree level. Such

programs are not vocational at this level but rather prepare managers, supervisors, and technologists.

65212. Food Processing Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. bachelor's degree programs preparing food processing industry managers. It corresponds to:

Bac 01.0401: *Agricultural and Food Products Processing Operations and Management*

65216. Building Trades Programmes, n.e.c. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. building and construction programs. It corresponds to:

Bac 46.0201: *Carpenter*
46.0302: *Electrician*
46.0401: *Building/Property Maintenance and Manager*
46.0403: *Construction/Building Inspector*
46.0499: Construction and Building Finishers and Managers, Other
46.9999: *Construction Trades, Other*

65222. Electrical and Electronics Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. electrical facilities installation programs. It corresponds to:

Bac 47.0101: *Electrical and Electronics Equipment Installer and Repairer, General*
47.0103: *Communications Systems Installer and Repairer*
47.0105: *Industrial Electronics Installer and Repairer*
47.0199: *Electrical and Electronics Equipment Installer and Repairer, Other*

65232. Metal Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in precision metalwork technology. It corresponds to:

Bac 48.0507: *Tool and Die Maker/Technologist*

65242. Mechanical and Mechanical Repair Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in industrial maintenance technology. It corresponds to:

Bac 47.0303: *Industrial Machinery Maintenance and Repairer*
47.0604: *Auto/Automotive Mechanic/Technician*
47.0605: *Diesel Engine Mechanic and Repairer*
47.0607: *Aircraft Mechanic/Technician, Airframe*
47.0608: *Aircraft Mechanic/Technician, Powerplant*
47.0699: *Vehicle and Mobile Equipment Mechanics and Repairers,*
Other
47.9999: *Mechanics and Repairers, Other*

65262. Woodworking Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. programs in industrial wood technology other than forestry (see broad field 654). It corresponds to:

Bac 48.0701: *Woodworkers, General*

65276. Clothing and Related Trades Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. programs in garment and fabric industry management and technology. It corresponds to:

Bac 20.0301: *Clothing, Apparel, and Textile Workers and Managers,*
General
20.0303: *Commercial Garment and Apparel Worker*
20.0399: *Clothing, Apparel, and Textile Workers and Managers,*
Other

65278. Graphic Arts Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in printing industry management and technology. It corresponds to:

Bac 48.0201: *Graphic and Printing Equipment Operator, General*
48.0211: *Computer Typography and Composition Equipment Operator*
48.0299: *Graphic and Printing Equipment Operators, Other*

65284. Laboratory Technology Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for

U.S. programs in scientific technology. It corresponds to:

Bac 41.0101: Biological Technology/Technician
41.0301: Chemical Technology/Technician
41.0399: Physical Science Technologies/Technicians, Other
41.9999: Science Technologies/Technicians, Other

65299. Other Trade, Craft and Industrial Programmes, n.e.c. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in production technologies not elsewhere classified. It corresponds to:

Bac 48.9999: Precision Production Trades, Other

654. Engineering Programmes

Both engineering and engineering technology programs are offered at the bachelor's degree level in the United States. Many engineering programs have increased their content requirements and now require 5 academic years to complete. Likewise, many engineering technology programs have increased their content requirements and are now offered at the bachelor's degree level as well as at the less-than-4-year level. Both types of program prepare students for immediate job entry or for further study.

65402. Programmes in Surveying. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in surveying. It corresponds to:

Bac 15.1102: Surveying

65406. Programmes in Drafting and Design. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. programs in drafting and design. It corresponds to:

Bac 14.2901: Engineering Design
48.0101: Drafting, General
48.0104: Electrical/Electronics Drafting
48.0105: Mechanical Drafting
48.0199: Drafting, Other

65412. Chemical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in chemical engineering and related fields. It includes:

- Bac 14.0601: Ceramic Sciences and Engineering**
- 14.0701: Chemical Engineering**
- 14.3201: Polymer/Plastics Engineering**
- 15.0607: Plastics Technology/Technician**

65416. Civil Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in civil engineering and related fields. It includes:

- Bac 14.0801: Civil Engineering, General**
- 14.0802: Geotechnical Engineering*
- 14.0804: Transportation and Highway Engineering*
- 14.0899: Civil Engineering, Other**
- 14.2401: Ocean Engineering**
- 15.0201: Civil Engineering/Civil Technology/Technician**
- 15.1001: Construction/Building Technology/Technician**

65422. Electrical and Electronics Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in electrical and electronics engineering and related fields. It includes:

- Bac 14.0901: Computer Engineering**
- 14.1001: Electrical, Electronics and Communications Engineering**
- 15.0301: Computer Engineering Technology/Technician**
- 15.0303: Electrical, Electronic and Communications Engineering Technology/Technician**
- 15.0399: Electrical and Electronic Engineering-Related Technologies/Technicians, Other**
- 15.0402: Computer Maintenance Technology/Technician*
- 15.0403: Electromechanical Technology/Technician**
- 15.0404: Instrumentation Technology/Technician*
- 15.0405: Robotics Technology/Technician**
- 15.0499: Electromechanical Instrumentation and Maintenance Technologies/Technicians, Other*

65426. Industrial Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in industrial

engineering and related fields. It includes:

- Bac** **14.1701: Industrial/Manufacturing Engineering**
 14.3001: Engineering/Industrial Management
 15.0603: Industrial/Manufacturing Technology/Technician
 15.0699: Industrial Production Technologies/Technicians,
 Other
 15.0701: Occupational Safety and Health Technology/Technician
 15.0702: Quality Control Technology/Technician
 15.0799: Quality Control and Safety Technologies/Technicians,
 Other

65432. Metallurgical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in metallurgical engineering and related fields. It includes:

- Bac** **14.2001: Metallurgical Engineering**
 15.0611: Metallurgical Technology/Technician

65436. Mining Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in mining engineering and related fields. It includes:

- Bac** **14.1501: Geological Engineering**
 14.2101: Mining and Mineral Engineering
 15.0901: Mining Technology/Technician
 15.0999: Mining and Petroleum Technologies/Technicians,
 Other

65442. Mechanical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in mechanical engineering and related fields. It includes:

- Bac** **14.0201: Aerospace, Aeronautical, and Astronautical Engineering**
 14.1901: Mechanical Engineering
 14.2201: Naval Architecture and Marine Engineering
 15.0801: Aeronautical and Aerospace Engineering Technology/
 Technician
 15.0803: Automotive Engineering Technology/Technician
 15.0805: Mechanical Engineering/Mechanical Technology/
 Technician
 15.0899: Mechanical Engineering-Related Technologies/

Technicians, Other
15.1103: Hydraulics Technology/Technician

65453. Agricultural Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for undergraduate programs in agricultural engineering. It includes:

Bac 14.0301: Agricultural Engineering

65463. Forestry Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. program data which cannot be disaggregated from data reported under forestry (see 66262). Consequently, no U.S. program data exist.

65499. Other Engineering Programmes. This program group code as defined in ISCED corresponds to data reported for a wide variety of programs for which no specific ISCED assignment exists. These include:

Bac 14.0101: Engineering, General
14.0501: Bioengineering and Biomedical Engineering
14.1101: Engineering Mechanics
14.1201: Engineering Physics
14.1301: Engineering Science
14.1401: Environmental/Environmental Health Engineering
14.1601: Geophysical Engineering
14.1801: Materials Engineering
14.2301: Nuclear Engineering
14.2501: Petroleum Engineering
14.2701: Systems Engineering
14.2801: Textile Sciences and Engineering
14.3101: Materials Science
14.9999: Engineering, Other
15.0304: Laser and Optical Technology/Technician
15.0401: Biomedical Engineering-Related Technology/Technician
15.0501: Heating, Air Conditioning and Refrigeration Technology/Technician
15.0503: Energy Management and Systems Technology/Technician
15.0506: Water Quality and Wastewater Treatment Technology/Technician
15.0507: Environmental and Pollution Control Technology/Technician
15.0599: Environmental Control Technologies/Technicians,

Other

15.0903: Petroleum Technology/Technician

15.1101: Engineering-Related Technology/Technician, General

15.9999: Engineering-Related Technologies/Technicians,

Other

41.0204: Industrial Radiologic Technology/Technician

41.0205: Nuclear/Nuclear Power Technology/Technician

658. Architectural and Town-Planning Programmes

U.S. professional degrees in architecture and urban planning are awarded at both the bachelor's and graduate levels. Bachelor's degree programs in architecture require from 5 to 6 years of study; the time for degrees in planning varies according to whether they are offered as architecture programs (preparatory to licensure) or not. The programs listed here prepare students for entry-level professional practice and for further study.

65801. General Programmes in Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in architecture. It includes:

Bac 04.0201: Architecture

65802. Programmes in Structural Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in architectural engineering and related fields. It includes:

Bac 04.0501: Interior Architecture

14.0401: Architectural Engineering

15.0101: Architectural Engineering Technology/Technician

65812. Programmes in Landscape Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in landscape architecture. It includes:

Bac 04.0601: Landscape Architecture

65822. Programmes in Town or Community Planning. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in urban planning and related fields. It includes:

Bac 04.0301: City/Urban, Community, and Regional Planning
04.0401: Architectural Environmental Design

65899. Other Programmes in Architecture and Town Planning. This code should be inserted at level 6 to report accurately U.S. data on architectural and related programs not elsewhere classified. It corresponds to:

Bac 04.9999: Architecture and Related Programs, Other
30.1201: Historic Preservation, Conservation, and Architectural History

662. Agricultural, Forestry and Fishery Programmes

In the ISCED system, this broad field includes programs related to veterinary medicine, whereas such programs are placed in the health professions and related sciences in U.S. data reporting. ISCED also combines forestry (which it defines to include wildlife management) and fishing programs with agriculture under this broad field, while U.S. classification practice separates them. U.S. undergraduate degree programs in these fields prepare students for employment, independent farm and agribusiness operations, and further study.

66201. General Programmes in Agriculture. This program group code as defined in ISCED corresponds to data reported on U.S. bachelor's degree general programs in agricultural sciences and business operations. It includes:

Bac 01.0101: Agricultural Business and Management, General
01.0301: Agricultural Production Workers and Managers, General
02.0101: Agriculture/Agricultural Sciences, General

66203. Animal Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in animal husbandry, agricultural animal sciences, and related fields. It includes:

Bac 01.0302: Agricultural Animal Husbandry and Production Management
01.0303: Aquaculture Operations and Production Management
01.0399: Agricultural Production Workers and Managers, Other
02.0201: Animal Sciences, General
02.0202: Agricultural Animal Breeding and Genetics
02.0203: Agricultural Animal Health
02.0205: Agricultural Animal Physiology
02.0206: Dairy Science

02.0209: Poultry Science
02.0299: Animal Sciences, Other

66206. Horticulture Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in horticulture science and the provision of various horticultural services. It corresponds to:

Bac **01.0601: Horticulture Services Operations and Management, General**
 01.0603: Ornamental Horticulture Operations and Management
 01.0605: Landscaping Operations and Management
 01.0606: Nursery Operations and Management
 01.0607: Turf Management
 01.0699: Horticulture Services Operations and Management, Other
 02.0403: Horticulture Science

66208. Crop Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in crop production and domesticated plant sciences. It corresponds to:

Bac *01.0304: Crop Production Operations and Management*
 02.0401: Plant Sciences, General
 02.0402: Agronomy and Crop Science
 02.0408: Plant Protection (Pest Management)
 02.0409: Range Science and Management
 02.0499: Plant Sciences, Other

66212. Agricultural Economics Programmes. This program group code as defined in ISCED includes various agricultural business-related subjects as well as agricultural economics. The corresponding U.S. undergraduate program data are reported under:

Bac **01.0102: Agricultural Business/Agribusiness Operations**
 01.0103: Agricultural Economics
 01.0104: Farm and Ranch Management
 01.0199: Agricultural Business and Management, Other

66222. Food Sciences and Technology Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs in food science and technology. It includes:

Bac 02.0301: Food Science and Technology

66226. Soil and Water Sciences Programmes. ISCED defines this program group code as referring to soil and water programs of different types at different levels. U.S. water resources programs pertaining to agriculture cannot be disaggregated from water resources programs reported under engineering and related technologies (see broad field 654) or elsewhere in the agriculture field. Corresponding U.S. undergraduate program data for soil sciences are reported under:

Bac 02.0501: Soil Sciences

66232. Programmes in Veterinary Medicine. Veterinary medicine is a graduate-level field of study in the U.S. This program group code at level 6 as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs preparing veterinary assistants and students seeking to enter veterinary medicine programs. It includes:

Bac 51.0808: Veterinary Assistant/Animal Health Technician
51.1104: Pre-Veterinary Studies

66249. Other Programmes in Agriculture. A number of other undergraduate agriculture-related programs are not assigned specific ISCED codes and should be reported here. They include:

Bac 01.0201: Agricultural Mechanization, General
01.0204: Agricultural Power Machinery Operator
01.0299: Agricultural Mechanization, Other
01.0501: Agricultural Supplies Retailing and Wholesaling
01.0505: Animal Trainer
01.0507: Equestrian/Equine Studies, Horse Management, and Training
01.9999: Agricultural Business and Production, Other
02.9999: Agriculture/Agricultural Sciences, Other

66262. Programmes in Forestry and Forest-Product Techniques. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in various forestry specializations and wildlife management. It includes:

Bac 03.0401: Forest Harvesting and Production Technology/Technician
03.0404: Forest Products Technology/Technician
03.0499: Forest Production and Processing, Other

03.0501: Forestry, General
03.0502: Forestry Sciences
03.0506: Forest Management
03.0509: Wood Science and Pulp/Paper Technology
03.0599: Forestry and Related Sciences, Other
03.0601: Wildlife and Wildlands Management

66272. Fishery Technician Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. bachelor's degree programs in fisheries science and the management of fishing operations. It includes:

Bac 03.0301: Fishing and Fisheries Sciences and Management

666. Home Economics (Domestic Science) Programmes

Only programs corresponding to the ISCED definition of home economics, and for which data are reported at this level, are included below. (See broad field 566 for an explanation of U.S. reporting practices in this field.) U.S. undergraduate home economics programs prepare students for employment in a variety of occupations including both traditional home economics-related fields and others such as family counseling, consulting, and positions in the food and housing industries. These programs also prepare students for further study in home economics or related disciplines.

66601. General Programmes in Home Economics. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate degree programs in general home economics, including:

Bac 19.0101: Home Economics, General

66612. Programmes in Home Economics with Emphasis on Household and Consumer Food Research; Nutrition. This program group code as defined in ISCED includes institutional food services as well as home consumer and nutrition programs. U.S. undergraduate program data are reported under:

Bac 19.0401: Family Resource Management Studies
19.0402: Consumer Economics and Science
19.0499: Family/Consumer Resource Management, Other
19.0501: Foods and Nutrition Studies, General
19.0502: Foods and Nutrition Science
19.0503: Dietetics/Human Nutritional Services
19.0505: Food Systems Administration

19.0599: Foods and Nutrition Studies, Other
20.0401: Institutional Food Workers and Administrators,
General
20.0409: Institutional Food Services Administrator

66622. Programmes in Home Economics with Emphasis on Child Care. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in child and family studies and the training of child care professionals. It includes:

Bac 19.0701: Individual and Family Development Studies, General
19.0706: Child Growth, Care, and Development Studies
19.0799: Individual and Family Development Studies, Other
20.0201: Child Care and Guidance Workers and Managers,
General
20.0299: Child Care and Guidance Workers and Managers,
Other

66632. Programmes in Home Economics with Emphasis on Household Arts. This program group code as defined in ISCED includes both housing/interiors studies and clothing and textile programs. Corresponding U.S. undergraduate programs for which data are reported include:

Bac 19.0601: Housing Studies, General
19.0603: Interior Environments
19.0699: Housing Studies, Other
19.0901: Clothing/Apparel and Textile Studies
20.0501: Home Furnishings and Equipment Installers and
Consultants, General
20.0599: Home Furnishings and Equipment Installers and
Consultants, Other

66699. Other Home Economics Programmes. This program group code as defined in ISCED corresponds to undergraduate program data reported on a variety of U.S. home economics fields, including:

Bac 19.0201: Business Home Economics
19.0301: Family and Community Studies
19.0704: Family Life and Relations Studies
19.9999: Home Economics, Other
20.0601: Custodial, Housekeeping and Home Services Workers
and Managers, General

670. Transport and Communications Programmes

This ISCED broad field should be inserted at level 6 in order to report data consistently for U.S. undergraduate degree programs in certain fields defined in ISCED as transportation and communications. These include bachelor's degree programs preparing students to become merchant marine officers, commercial aviation aircrew officers, and aviation ground managers. Although these programs lead directly to employment, students may and do continue their studies in related fields such as engineering and business administration (depending on their qualifications).

67002. Air Crew Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs preparing flight crew for long-range commercial airlines. Standards for such crew positions differ from other commercial aviation in requiring extensive familiarity with engineering technology, law and regulations, navigation, management, and psychology. ISCED code 67002 includes:

Bac 49.0102: Aircraft Pilot and Navigator (Professional)

67004. Ships' Officer Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs preparing merchant marine officers. U.S. merchant marine personnel are trained at both the bachelor's and less-than-4-year levels; the former programs provide more extensive grounding in both academic and practical subjects and lead to more responsible positions on larger vessels or in shore management, as well as preparing students for possible further study. ISCED code 67004 includes:

Bac 49.0309: Marine Science/Merchant Marine Officer

67029. Other Communications Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs preparing various types of aviation management personnel not elsewhere classified. ISCED code 67029 includes:

Bac 49.0101: Aviation and Airway Science
49.0104: Aviation Management
49.0105: Air Traffic Controller
49.0199: Air Transportation Workers, Other
49.9999: Transportation and Materials Moving Workers,

Other

678. Service Programmes

This ISCED broad field should be inserted at level 6 in order to report data consistently for U.S. undergraduate degree programs in certain fields defined in ISCED as service trades. These include programs preparing professionals in the hospitality and tourism fields, in sales-related fields, and in funeral services. Such programs are also offered at Level 5; bachelor's degree programs provide a broader background and prepare students for further study in related fields.

67812. Cosmetology Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for the few U.S. cosmetology programs completed at this level. It corresponds to:

Bac 12.0403: *Cosmetologist*

67822. Hotel and Restaurant Services Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. undergraduate hospitality services programs. It corresponds to:

Bac 08.0901: *Hospitality and Recreation Marketing Operations,*
General
08.0903: *Recreation Products/Services Marketing Operations*
08.0999: *Hospitality and Recreation Marketing Operations,*
Other
12.0504: **Food and Beverage/Restaurant Operations Manager**

67862. Retailing Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. undergraduate retail services programs. It corresponds to:

Bac 08.0101: **Apparel and Accessories Marketing Operations,**
General
08.0102: **Fashion Merchandising**
08.0199: *Apparel and Accessories Marketing Operations,*
Other
08.0299: **Business and Personal Services Marketing Operations,**
Other
08.0401: *Financial Services Marketing Operations*
08.0601: *Food Products Retailing and Wholesaling Operations*

08.0809: *Home Products Marketing Operations*
08.1203: *Vehicle Parts and Accessories Marketing Operations*
08.1299: *Vehicle and Petroleum Products Marketing Operations,*
Other
08.9999: Marketing Operations/Marketing and Distribution,
Other

67872. Tourism and Travel Services Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. undergraduate tourist services programs. It corresponds to:

Bac 08.1104: Tourism Promotion Operations
08.1105: Travel Services Marketing Operations
08.1199: Tourism and Travel Services Marketing Operations,
Other

67899. Other Services Programmes. This program group code should be inserted at level 6 (it appears only at level 3) to report data accurately and consistently for U.S. undergraduate programs in the service professions not elsewhere classified. It corresponds to:

Bac 12.0301: Funeral Services and Mortuary Science

684. Programmes in Mass Communications and Documentation

This ISCED broad field code includes the journalism and communications fields, library science and related fields, and miscellaneous technical programs associated with audiovisual communications. Each of these is reported separately in the United States, but are combined for ISCED reporting purposes. At the bachelor's degree level these programs prepare students for employment and, where appropriate, further study.

68402. Journalism Programmes. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. programs related to journalism and mass communications, including:

Bac 09.0401: Journalism
09.0403: Mass Communications
09.0499: Journalism and Mass Communications, Other

68404. Programmes in Radio and Television Broadcasting. This program group code as

defined in ISCED corresponds to undergraduate data reported for U.S. programs related to broadcast communications, including:

- Bac** **09.0402: Broadcast Journalism**
 09.0701: Radio and Television Broadcasting
 **10.0104: Radio and Television Broadcasting Technology/
 Technician**

68407. Public Relations Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. undergraduate programs under the following code:

- Bac** **09.0501: Public Relations and Organizational Communications**

68409. Other Programmes in Communications Arts. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. communications programs not elsewhere classified, including:

- Bac** **09.0101: Communications, General**
 09.9999: Communications, Other
 10.0199: Communications Technologies/Technicians, Other

68422. Library Science Programmes. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. programs in library science, including:

- Bac** **25.0101: Library Science/Librarianship**
 25.9999: Library Science, Other

68425. Programmes for Museum Curators and Administrators. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in museum studies. U.S. museum curators and administrators generally possess degrees in either an academic discipline related to the field of curatorial responsibility or a degree in a support field such as management, law, education, or public relations. Museum studies programs prepare entry-level professional curatorial staff and serve as adjuncts to parallel degree programs in a discipline. ISCED code 68425 includes:

- Bac** **30.1401: Museology/Museum Studies**

689. Other Programmes of Education at the Third Level, First Stage of the Type that Leads to a First University Degree or the Equivalent

ISCED uses this broad field to report data on a variety of classified programs as well as "other" or "unknown" programs. The identifiable program classifications assigned here include social work, community organization, R.O.T.C. programs, public safety (fire and law enforcement) programs, physical education and recreation, and natural resources and conservation. Data for these fields reported at level 6 refer to undergraduate programs preparing students for employment or further study.

68912. Programmes in Police Work and Related Law Enforcement. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in law enforcement other than criminology (see 68913. below). It includes:

- Bac 43.0102: Corrections/Correctional Administration
- 43.0103: Criminal Justice/Law Enforcement Administration
- 43.0104: Criminal Justice Studies
- 43.0106: Forensic Technology/Technician
- 43.0107: Law Enforcement/Police Science
- 43.0109: Security and Loss Prevention Services
- 43.0199: Criminal Justice and Corrections, Other

68913. Programmes in Criminology. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. programs in criminology, which is an academic discipline in the social sciences as well as a title used to refer to some professional police training. It includes:

- Bac 45.0401: Criminology

68915. Fire-Protection Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in fire protection services. It includes:

- Bac 43.0201: Fire Protection and Safety Technology/Technician
- 43.0202: Fire Services Administration
- 43.0299: *Fire Protection, Other*

68917. Military Programmes. This program group code should be inserted at level 6 (it appears only at level 5) to report data accurately and consistently for U.S. undergraduate programs in military technologies. Aside from this program, the United States armed services do not grant degrees, nor do U.S. educational institutions, in specific military fields. Officers and enlisted personnel who possess postsecondary qualifications concentrate in civilian subjects such as engineering, business, and history, and their degrees—even from the

service academies—reflect regular academic studies. It is possible for personnel who have been commissioned as officers under the Reserve Officer Training Program (ROTC), which occurs on civilian campuses, to occasionally be listed as completing such programs in addition to their actual major. Data on ROTC completions are not routinely reported, however, because they do not lead to academic awards. Thus, the only data corresponding to this program group code which are normally reported would be under the following code:

Bac *29.0101: Military Technologies*

68919. Other Civil Security and Military Programmes. This program group code as defined in ISCED corresponds only to the following U.S. code:

Bac **43.9999: Protective Services, Other**

68932. Social Welfare Programmes. This program group code as defined in ISCED is the place to report undergraduate data on a variety of U.S. social and community assistance programs, including social work. As defined, it corresponds to:

Bac *19.0703: Family and Marriage Counseling*
 19.0705: Gerontological Services
 44.0201: Community Organization, Resources and Services
 44.0701: Social Work

68942. Programmes in Vocational Counseling. There are no U.S. program data corresponding to this program group code, at this level, that can be disaggregated from codes reported elsewhere (see codes 65099 and 68932).

68952. Programmes in Environmental Studies. This program group code as defined in ISCED corresponds to undergraduate data reported for U.S. programs in environmental science and related natural resources conservation fields. It includes:

Bac **03.0101: Natural Resources Conservation, General**
 03.0102: Environmental Science/Studies
 03.0201: Natural Resources Management and Policy
 03.0299: Natural Resources Management and Protective
 Services, Other
 03.9999: Conservation and Renewable Natural Resources,
 Other

68962. Programmes in Physical Education. This program group code is the appropriate

place to report undergraduate data on all U.S. physical education and related recreation programs that do not have to do with teacher education. As defined, it corresponds to:

- Bac** **31.0101: Parks, Recreation and Leisure Studies**
 31.0301: Parks, Recreation and Leisure Facilities
 Management
 31.0501: Health and Physical Education, General
 31.0502: Adapted Physical Education/Therapeutic Recreation
 31.0503: Athletic Training and Sports Medicine
 31.0504: Sport and Fitness Administration/Management
 31.0505: Exercise Sciences/Physiology and Movement Studies
 31.0599: Health and Physical Education/Fitness, Other
 31.9999: Parks, Recreation, Leisure and Fitness Studies,
 Other

68972. Programmes in Nautical Science. No U.S. program corresponding to this ISCED program group code is known to exist.

68999. Other Programmes of Education, n.e.c. This program group code as defined in ISCED corresponds to undergraduate data reported for the following U.S. programs which are classified nowhere else:

- Bac** **30.1101: Gerontology**
 30.1501: Science, Technology, and Society
 30.9999: Multi/Interdisciplinary Studies, Other

CHAPTER 9

Crosswalking Data at Level 7: Education at the Third Level, Second Stage, of the Type that Leads to a Post-Graduate University Degree or Equivalent

ISCED level 7 corresponds to U.S. postsecondary programs as reported in the following IPEDS level categories:

Mas	<i>Master's Degree</i>
PMC	<i>Post-Master's Certificate</i>
Doc	<i>Doctor's Degree</i>
1PD	<i>First-Professional Degree</i>
1PC	<i>First-Professional Certificate (Post-Degree)</i>

The format for this section follows that used for levels 5 and 6 (see chapters 7 and 8).

ISCED collapses all data on postgraduate (the U.S. term is graduate) studies into a single category: level 7. For U.S. reporting purposes this means that level 7 data include what are called first-professional degrees in addition to the universally recognized master's and research doctorate degree categories.

The First-Professional Degree. First-professional degrees are entry-level qualifications required of persons seeking to be licensed to practice certain professions. They may, in addition, qualify students to seek admission to graduate-level research programs in the same or a related field. First-professional degrees are professional qualifications that can be earned only after the bachelor's degree or its equivalent has been achieved but are nevertheless considered initial degrees in a given professional practice field. They are, therefore, graduate level only in that they require prior completion of other undergraduate studies, but are not research degrees in their fields nor equivalent to graduate research degrees in other fields. Confusion sometimes arises because a number of U.S. first-professional degrees use the term "doctor" in the title. First-professional degrees are currently recognized in the fields of law, theology, and various health professions.

Other graduate-level professional programs and awards are not designated "first-professional" even though they are not research oriented. These include many master's and some doctoral degrees in education, business administration, certain health professions (such as nursing and allied health fields), engineering, architecture, and (religious) ministry. Since the titles of the degree awards in these fields do not necessarily reflect the kind of program completed or always represent the first credential earned in the field, these programs have not been designated first-professional.

The First-Professional Certificate. This award level was created at the same time as was the first-professional degree level. No data, to date, have ever been reported under it. For this reason, it is ignored in chapter 9 but is retained in the appendix for purposes of crosswalking any future data.

The Master's Degree. Master's degrees are the second full degree awarded by U.S. colleges and universities and may be earned in either academic or professional fields. In the case of fields recognized as awarding first-professional degrees, the master's degree follows the first-professional qualification. Master's degrees vary in type and length. In professional fields these degrees may provide work-related instruction and have no research component; in other fields students may be permitted to pursue a "thesis option" (researching and defending a thesis) or a "non-thesis option" (no thesis, but some research ability may be demonstrated through papers or projects). Length of program depends upon the level of student preparation, the field, and the regulations of the institution and faculty department. A growing number of universities and academic disciplines no longer require that a master's degree be earned prior to entering a doctoral program. The largest numbers of master's degrees are now earned in business administration and education; the former are nearly always work-related professional programs, while the latter may be either professional programs or research programs.

The Post-Master's Certificate. Like postbaccalaureate certificates at ISCED level 6, post-master's certificates are comparatively rarely awarded. The professional qualification of "education specialist" (EdSp), which is an advanced non-research credential offered in some teaching and administrative specialties in education, is reported under the this category even though it is not, strictly speaking, a certificate. The few CIP codes under which significant PMC level data are currently reported are listed below by corresponding ISCED code.

Programs Reporting Significant PMC Data, by ISCED Code		
ISCED Code	CIP Code	CIP Program Title
71401	13.0101	<i>Education, General</i>
	13.1202	<i>Elementary Teacher Education</i>
	13.1203	<i>Junior High/Intermediate/Middle School Teacher Education</i>
	13.1205	<i>Secondary Teacher Education</i>
	13.1299	<i>General Teacher Education, Other</i>
71404	13.1302	<i>Art Teacher Education</i>
	13.1305	<i>English Teacher Education</i>
	13.1311	<i>Mathematics Teacher Education</i>
	13.1312	<i>Music Teacher Education</i>

	13.1314	<i>Physical Education Teaching and Coaching</i>
	13.1315	<i>Reading Teacher Education</i>
	13.1316	<i>Science Teacher Education, General</i>
	13.1317	<i>Social Science Teacher Education</i>
	13.1321	<i>Computer Teacher Education</i>
71408	13.1303	<i>Business Teacher Education</i>
	13.1320	<i>Trade and Industrial Teacher Education</i>
71412	13.1204	<i>Pre-Elementary/Early Childhood/Kindergarten Teacher Education</i>
71422	13.1001	<i>Special Education, General</i>
	13.1005	<i>Education of the Emotionally Handicapped</i>
	13.1011	<i>Education of the Specific Learning Disabled</i>
71472	13.0301	<i>Curriculum and Instruction</i>
	13.0802	<i>Educational Psychology</i>
71499	13.0501	<i>Educational/Instructional Media Design</i>
	13.1101	<i>Counselor Education/Counseling and Guidance Services</i>
	13.1399	<i>Teacher Education, Specialized Academic and Vocational Programs, Other</i>
	13.9999	<i>Education, Other</i>
71822	50.0901	<i>Music, General</i>
	50.0903	<i>Music — General Performance</i>
71832	50.0501	<i>Drama/Theatre Arts, General</i>
72211	23.0101	<i>English Language and Literature, General</i>
	23.9999	<i>English Language and Literature/Letters, Other</i>
72215	16.0501	<i>German Language and Literature</i>
72231	16.0102	<i>Linguistics</i>
72241	23.0301	<i>Comparative Literature</i>
72251	45.0801	<i>History, General</i>
72271	38.0101	<i>Philosophy</i>
72600	39.0401	<i>Religious Education</i>
	39.0601	<i>Theology/Theological Studies</i>

	39.0701	<i>Pastoral Counseling and Specialized Ministries</i>
73012	45.0601	<i>Economics, General</i>
73022	45.1001	<i>Political Science, General</i>
73032	45.1101	<i>Sociology</i>
73042	45.0201	<i>Anthropology</i>
73052	42.0101	<i>Psychology, General</i>
	42.0201	<i>Clinical Psychology</i>
	42.0601	<i>Counseling Psychology</i>
	42.1701	<i>School Psychology</i>
	42.9999	<i>Psychology, Other</i>
73401	52.0201	<i>Business Administration and Management, General</i>
73452	44.0401	<i>Public Administration</i>
73462	13.0401	<i>Education Administration and Supervision, General</i>
	13.0404	<i>Educational Supervision</i>
	13.0405	<i>Elementary, Middle, and Secondary School Administration</i>
	13.0406	<i>Higher Education Administration</i>
	13.0499	<i>Education Administration and Supervision, Other</i>
74212	40.0501	<i>Chemistry, General</i>
74601	27.0101	<i>Mathematics</i>
74641	11.0101	<i>Computer and Information Sciences, General</i>
75002	51.0301	<i>Community Health Liason</i>
75012	51.1699	<i>Nursing, Other</i>
75042	51.0501	<i>Dental Clinical Sciences/Graduate Dentistry (MS, PhD)</i>
75416	14.0801	<i>Civil Engineering, General</i>
75422	14.1001	<i>Electrical, Electronics, and Communications Engineering</i>
75442	14.0201	<i>Aerospace, Aeronautical, and Astronautical Engineering</i>
	14.1901	<i>Mechanical Engineering</i>

75499	14.9999	<i>Engineering, Other</i>
78422	25.0101	<i>Library Science/Librarianship</i>
78932	44.0701	<i>Social Work</i>

The list shows that most PMC level awards are in professional fields. These generally take the form of specialized qualifications, such as the aforementioned education specialist programs, or signify that a certain amount of work beyond the master's level has been completed. This additional work may qualify an individual in a subspecialty of his or her field or in an adjunct field. Insignificant PMC data are reported in several categories, including area studies, ethnic and cultural studies, foreign languages, health professions, and business. PMC data are not presented elsewhere in chapter 9, but full crosswalk instructions are provided in the appendix.

Graduate research degrees prepare students primarily for academic careers and positions as expert staff in firms, organizations, and government. U.S. universities and other postsecondary institutions possess internal regulations governing the process of hiring entry-level faculty members and advancing them toward tenure. Tenure, where it exists, is roughly equivalent to the European university status of habilitated doctor but results in no award of a second doctorate. Neither does it carry the privileges and official recognition that the professoriate is accorded in some European and other systems.

701. General Programmes

This ISCED broad field should be inserted in order to report data accurately and consistently on U.S. graduate interdisciplinary programs in the liberal arts.

70100. General Programmes. This program group code needs to be inserted at ISCED level 7 (it appears at levels 5 and 6) in order to report data accurately on U.S. programs at the graduate level which are either: (a) individualized programs of studies designed by a student under faculty supervision and not corresponding to a regular major field; or (b) structured programs encompassing the interdisciplinary study of broad themes or issues, usually from a humanistic or social scientific perspective. It includes:

Mas 24.0101: Liberal Arts and Sciences/Liberal Studies
24.0102: General Studies
24.0199: Liberal Arts and Sciences/General Studies and
Humanities, Other

Doc 24.0101: Liberal Arts and Sciences/Liberal Studies

24.0102: *General Studies*

**24.0199: Liberal Arts and Sciences/General Studies and
Humanities, Other**

714. Programmes in Education Science and Teacher-Training

The master's degree (MEd, MAT) is increasingly becoming the preferred professional qualification for teachers at the PK-12th grade levels. It is also preferred for administrators at all levels of education, with school principals and postsecondary administrators often also earning education specialist (EdSp) or professional doctor's (EdD) degrees. Programs in the nonteaching and nonadministrative subfields of education, those defined as "education science" in ISCED, generally result in the award of the master of arts (MA) or science (MS), or the research doctorate (PhD). It should be noted that the use of the terminology for the doctorate in education is inconsistent across U.S. institutions. The terms "doctor of education" (EdD) and "doctor of philosophy" (PhD) are often used interchangeably for research and practice programs.

71401. General Programmes in Education Science. This program group code corresponds to data reported for U.S. graduate programs in education for which no specialization is indicated and for graduate programs in teacher education which focus on problems at a specific level. It includes:

Mas 13.0101: Education, General
13.1202: Elementary Teacher Education
13.1203: Junior High/Intermediate/Middle School Teacher Education
13.1205: Secondary Teacher Education
13.1206: Teacher Education, Multiple Levels
13.1299: General Teacher Education, Other

Doc 13.0101: Education, General
13.1202: Elementary Teacher Education
13.1205: Secondary Teacher Education
13.1206: *Teacher Education, Multiple Levels*
13.1299: General Teacher Education, Other

71404. Programmes in Education with Specialization in Curriculum Development in a Non-Vocational Subject. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching non-vocational subjects. It includes:

Mas 13.1302: Art Teacher Education
13.1305: English Teacher Education
13.1306: Foreign Languages Teacher Education, General

13.1307: Health Teacher Education
13.1311: Mathematics Teacher Education
13.1312: Music Teacher Education
13.1314: Physical Education Teaching and Coaching
13.1315: Reading Teacher Education
13.1316: Science Teacher Education, General
13.1317: Social Science Teacher Education, General
13.1318: Social Studies Teacher Education
13.1321: Computer Teacher Education
13.1322: Biology Teacher Education
13.1323: Chemistry Teacher Education
13.1325: French Language Teacher Education
13.1328: History Teacher Education
13.1330: Spanish Language Teacher Education
13.1331: Speech Teacher Education
13.1401: Teaching English as a Second Language/Foreign Language

Doc 13.1302: Art Teacher Education
13.1305: English Teacher Education
13.1306: Foreign Languages Teacher Education, General
13.1307: Health Teacher Education
13.1311: Mathematics Teacher Education
13.1312: Music Teacher Education
13.1314: Physical Education Teaching and Coaching
13.1315: Reading Teacher Education
13.1316: Science Teacher Education, General
13.1317: Social Science Teacher Education, General
13.1318: Social Studies Teacher Education
13.1321: Computer Teacher Education
13.1401: Teaching English as a Second Language/Foreign Language

71408. Programmes in Education with Specialization in Curriculum Development in a Vocational Subject. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching vocational and related subjects. It includes:

Mas 13.1301: Agricultural Teacher Education
13.1303: Business Teacher Education
13.1304: Driver and Safety Teacher Education
13.1308: Home Economics Teacher Education
13.1309: Technology/Industrial Arts Teacher Education
13.1310: Marketing Operations/Marketing and Distribution Teacher

Education

13.1319: Technical Teacher Education
13.1320: Trade and Industrial Teacher Education
13.1327: Health Occupations Teacher Education

Doc 13.1301: Agricultural Teacher Education
13.1303: Business Teacher Education
13.1308: Home Economics Teacher Education
13.1309: Technology/Industrial Arts Teacher Education
13.1310: Marketing Operations/Marketing and Distribution Teacher Education
13.1319: Technical Teacher Education
13.1320: Trade and Industrial Teacher Education
13.1327: Health Occupations Teacher Education

71412. Programmes with Specialization in Early Childhood Education. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching at the early childhood level (grades PK-3). It includes:

Mas 13.1204: Pre-Elementary/Early Childhood/Kindergarten Teacher Education

Doc 13.1204: Pre-Elementary/Early Childhood/Kindergarten Teacher Education

71416. Programmes with Specialization in Adult Education. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching at the adult level (adult literacy, adult basic education, continuing education). It includes:

Mas 13.1201: Adult and Continuing Teacher Education

Doc 13.1201: Adult and Continuing Teacher Education

71422. Programmes with Specialization in the Education of the Handicapped. This program group code corresponds to U.S. data reported for graduate programs which focus on problems in teaching students with conditions and disabilities affecting learning. It includes:

Mas 13.1001: Special Education, General
13.1003: Education of the Deaf and Hearing Impaired
13.1005: Education of the Emotionally Handicapped
13.1006: Education of the Mentally Handicapped

13.1007: Education of the Multiple Handicapped
13.1008: Education of the Physically Handicapped
13.1009: Education of the Blind and Visually Impaired
13.1011: Education of the Specific Learning Disabled
13.1012: Education of the Speech Impaired
13.1099: Special Education, Other

Doc 13.1001: Special Education, General
13.1005: Education of the Emotionally Handicapped
13.1007: Education of the Multiple Handicapped
13.1011: Education of the Specific Learning Disabled
13.1099: Special Education, Other

71432. Programmes in Education for Teacher Trainers. No U.S. program data corresponding to this ISCED program group code exist.

71472. Programmes in Education Science without Teacher Training. This program group code corresponds to U.S. data reported for graduate programs in specific education subfields which focus on problems in research and assessment methods, theory, philosophy, the social context of education, and the learning and growth process. It includes:

Mas 13.0301: Curriculum and Instruction
13.0601: Educational Evaluation and Research
13.0603: Educational Statistics and Research Methods
13.0604: Educational Assessment, Testing, and Measurement
13.0699: Educational Evaluation, Research, and Statistics, Other
13.0701: International and Comparative Education
13.0802: Educational Psychology
13.0901: Social and Philosophical Foundations of Education

Doc 13.0301: Curriculum and Instruction
13.0601: Educational Evaluation and Research
13.0603: Educational Statistics and Research Methods
13.0604: Educational Assessment, Testing, and Measurement
13.0699: Educational Evaluation, Research, and Statistics, Other
13.0701: International and Comparative Education
13.0802: Educational Psychology
13.0901: Social and Philosophical Foundations of Education

71499. Other Programmes in Education Science and Teacher Training. This program group code corresponds to U.S. data reported on graduate programs in education which do not fit under other ISCED program group codes in this field at Level 7, including:

- Mas** 13.0201: Bilingual/Bicultural Education
 13.0501: Educational/Instructional Media Design
 13.1101: Counselor Education/Counseling and Guidance Services
 13.1102: College/Postsecondary Student Counseling and Personnel Services
 13.1399: Teacher Education, Specialized Academic and Vocational
 Programs, Other
 13.9999: Education, Other
- Doc** 13.0201: Bilingual/Bicultural Education
 13.0501: Educational/Instructional Media Design
 13.1101: Counselor Education/Counseling and Guidance Services
 13.1102: College/Postsecondary Student Counseling and Personnel Services
 13.1399: Teacher Education, Specialized Academic and Vocational
 Programs, Other
 13.9999: Education, Other

718. Fine and Applied Arts Programmes

U.S. graduate programs in the visual and performing arts consist of both academic and professionally oriented offerings. The instructional activity takes place in colleges and universities as well as independent schools (academies, conservatories) specializing in one or more of the arts.

71801. General Programmes of Art Studies. This program group code needs to be inserted at ISCED level 7 (it appears at levels 5 and 6) in order to report data accurately on U.S. art programs at the graduate level which do not specify the subfield of concentration. It includes:

- Mas** 50.0401: Design and Visual Communications
 50.0701: Art, General
 50.0702: Fine/Studio Arts

- Doc** 50.0701: Art, General

71802. Programmes in the History and Philosophy of Art. This program group code corresponds to U.S. data reported for graduate programs in art history and related specializations in conservation and connoisseurship. It includes:

- Mas** 50.0703: Art History, Criticism, and Conservation
- Doc** 50.0703: Art History, Criticism, and Conservation

71804. Programmes in Drawing and Painting. This program group code corresponds to U.S. data reported for graduate programs in studio art focusing on drawing, painting, and printmaking techniques. It includes:

Mas 50.0705: Drawing
50.0708: Painting
50.0710: Printmaking

Doc No data currently reported.

71808. Programmes in Sculpturing. This program group code corresponds to U.S. data reported for graduate programs in studio art focusing on sculpture techniques. It includes:

Mas 50.0709: Sculpture

Doc No data currently reported.

71812. Programmes in Handicrafts. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately on U.S. graduate programs in the folk arts and crafts. These artistic disciplines are frequently taught in U.S. fine arts programs and are regarded as legitimate subjects of advanced study as part of the national cultural heritage. ISCED code 71812 includes:

Mas 50.0201: *Crafts, Folk Art, and Artisanry*
50.0711: Ceramic Arts and Ceramics
50.0712: Fiber, Textile, and Weaving Arts
50.0713: Metal and Jewelry Arts

Doc 50.0712: *Fiber, Textile, and Weaving Arts*

71822. Programmes in Music. This program group code corresponds to U.S. data reported for graduate programs in music scholarship, theory, composition, and performance. It includes:

Mas 50.0901: Music, General
50.0902: Music History and Literature
50.0903: Music—General Performance
50.0904: Music Theory and Composition
50.0905: *Musicology and Ethnomusicology*
50.0906: Music Conducting
50.0907: Music—Piano and Organ Performance
50.0908: Music—Voice and Choral/Opera Performance

50.0999: Music, Other

- Doc** **50.0901: Music, General**
 50.0902: Music History and Literature
 50.0903: Music—General Performance
 50.0904: Music Theory and Composition
 50.0905: Musicology and Ethnomusicology
 50.0906: Music Conducting
 50.0907: Music—Piano and Organ Performance
 50.0999: Music, Other

71832. Programmes in the Drama. This program group code corresponds to U.S. data reported for graduate programs in the dramatic arts. It includes:

- Mas** **50.0501: Drama/Theatre Arts, General**
 50.0502: Technical Theatre/Theatre Design and Stagecraft
 50.0503: Acting and Directing
 50.0599: Drama/Theatre Arts and Stagecraft, Other

- Doc** **50.0501: Drama/Theatre Arts, General**

71842. Programmes in Photography and Cinematography. This program group code should be inserted at level 7 (it appears at level 5) in order to report data accurately on U.S. graduate programs in photography and film. ISCED code 71842 includes:

- Mas** **50.0601: Film/Cinema Studies**
 50.0602: Film-Video Making/Cinematography and Production
 50.0605: Photography
 50.0699: Film/Video and Photographic Arts, Other

- Doc** No data currently reported.

71852. Programmes in Interior Design. This program group code corresponds to U.S. data reported for graduate programs in interior design. It includes:

- Mas** *50.0408: Interior Design*

- Doc** No data currently reported.

71899. Other Fine and Applied Arts Programmes. This program group code corresponds to U.S. data reported for a variety of graduate arts programs which do not correspond to any

other ISCED program group code at this level. These include:

Mas 50.0101: Visual and Performing Arts
50.0301: Dance
50.0402: Graphic Design, Commercial Art and Illustration
50.0404: Industrial Design
50.0407: Fashion Design and Illustration
50.0499: Design and Applied Arts, Other
50.0704: Arts Management
50.0706: Intermedia
50.0799: Fine Arts and Art Studies, Other
50.9999: Visual and Performing Arts, Other

Doc 50.0101: Visual and Performing Arts
50.0301: Dance
50.0407: Fashion Design and Illustration
50.0799: Fine Arts and Art Studies, Other
50.9999: Visual and Performing Arts, Other

722. Humanities Programmes

Intensive, specialized, and professional study of the humanities in the United States occurs at the graduate level. This study builds upon the broad multidisciplinary foundation laid at the bachelor's degree level as well as the focused introduction to the study of a humanities (or related) field provided through the undergraduate major. Most graduate programs in the humanities focus on preparing professional scholars, although an increasing emphasis on alternative career preparation has emerged in recent years in light of the limited academic job market.

While this crosswalk follows ISCED practice, it should be noted that in the U.S. religious studies and art studies programs (art history, music history, drama studies, film studies, general visual/performing arts studies) are considered to be humanities subjects, and their program data would be reported domestically in this category.

72201. General Programmes in the Humanities. This program group code needs to be inserted at ISCED level 7 (it appears at levels 5 and 6) in order to report data accurately on U.S. humanities programs at the graduate level which are interdisciplinary in character. It includes:

Mas 24.0103: Humanities/Humanistic Studies

Doc 24.0103: Humanities/Humanistic Studies

72208. Other Programmes in Languages, Except the Current or Vernacular Language. This program group code should be inserted at Level 7 (it appears only at Level 5) to report data consistently on U.S. graduate programs in foreign languages in which the specific language studied is not identified by name. It includes:

Mas 16.0101: Foreign Languages and Literatures, General

Doc 16.0101: Foreign Languages and Literatures, General

72211. Programmes in the Current or Vernacular Language and Its Literature. This program group code corresponds, in U.S. terms, to data reported for various graduate programs in English. It includes:

Mas 23.0101: English Language and Literature, General

23.0401: English Composition

23.0501: English Creative Writing

23.0701: American Literature (United States)

23.0801: English Literature (British and Commonwealth)

23.1001: Speech and Rhetorical Studies

23.1101: English Technical and Business Writing

23.9999: English Language and Literature/Letters, Other

Doc 23.0101: English Language and Literature, General

23.0401: English Composition

23.0501: English Creative Writing

23.0701: American Literature (United States)

23.0801: English Literature (British and Commonwealth)

23.1001: Speech and Rhetorical Studies

23.9999: English Language and Literature/Letters, Other

72215. Programmes in Other Living Languages and Their Literature. This program group code corresponds to data reported for U.S. graduate programs in modern foreign languages. It includes:

Mas 16.0301: Chinese Language and Literature

16.0302: Japanese Language and Literature

16.0399: East and Southeast Asian Languages and Literatures, Other

16.0402: Russian Language and Literature

16.0403: Slavic Languages and Literatures (Other Than Russian)

16.0499: East European Languages and Literatures, Other

16.0501: German Language and Literature

16.0502: Scandinavian Languages and Literatures

16.0599: Germanic Languages and Literatures, Other

16.0602: *Greek Language and Literature (Modern)*
 16.0703: *South Asian Languages and Literatures*
16.0901: French Language and Literature
16.0902: Italian Language and Literature
 16.0904: *Portuguese Language and Literature*
16.0905: Spanish Language and Literature
16.0999: Romance Languages and Literatures, Other
16.1102: Hebrew Language and Literature
 16.1199: *Middle Eastern Languages and Literatures, Other*
16.9999: Foreign Languages and Literatures, Other

Doc 16.0301: *Chinese Language and Literature*
 16.0302: *Japanese Language and Literature*
16.0399: East and Southeast Asian Languages and Literatures, Other
 16.0402: *Russian Language and Literature*
16.0403: Slavic Languages and Literatures (Other Than Russian)
 16.0499: *East European Languages and Literatures, Other*
16.0501: German Language and Literature
 16.0502: *Scandinavian Languages and Literatures*
16.0599: Germanic Languages and Literatures, Other
 16.0703: *South Asian Languages and Literatures*
16.0901: French Language and Literature
16.0902: Italian Language and Literature
 16.0904: *Portuguese Language and Literature*
16.0905: Spanish Language and Literature
16.0999: Romance Languages and Literatures, Other
 16.1101: *Arabic Language and Literature*
 16.1102: *Hebrew Language and Literature*
 16.1199: *Middle Eastern Languages and Literatures, Other*
16.9999: Foreign Languages and Literatures, Other

72221. Programmes in "Dead" Languages and Their Literature. This program group code corresponds to data reported for U.S. graduate programs in classics and ancient languages at the bachelor's degree level. It includes:

Mas 16.1201: **Classics and Classical Languages and Literatures**
 16.1202: **Greek Language and Literature (Ancient and Medieval)**
 16.1203: **Latin Language and Literature (Ancient and Medieval)**
 16.1299: *Classical and Ancient Near Eastern Languages and Literatures, Other*

Doc 16.1201: Classics and Classical Languages and Literatures
16.1202: Greek Language and Literature (Ancient and Medieval)

72231. Programmes in Linguistics. This program group code corresponds to U.S. data reported for the following program:

Mas 16.0102: Linguistics

Doc 16.0162: Linguistics

72241. Programmes in Comparative Literature. This program group code corresponds to U.S. data reported for the following program:

Mas 23.0301: Comparative Literature

Doc 23.0301: Comparative Literature

72251. Programmes in History. This program group code corresponds to U.S. data reported for graduate programs in history and related fields. It includes:

Mas 45.0801: History, General
45.0802: American (United States) History
45.0804: History and Philosophy of Science and Technology
45.0805: Public/Applied History and Archival Administration
45.0899: History, Other

Doc 45.0801: History, General
45.0802: American (United States) History
45.0804: History and Philosophy of Science and Technology
45.0899: History, Other

72261. Programmes in Archaeology. This program group code corresponds to U.S. data reported for graduate programs in archaeology. It includes:

Mas 45.0301: Archaeology

Doc 45.0301: Archaeology

72271. Programmes in Philosophy. This program group code corresponds to U.S. graduate program data reported for the following:

Mas 38.0101: Philosophy

Doc 38.0101: Philosophy

72299. Other Humanities Programs. This program group code corresponds to U.S. data reported for a variety of graduate-level humanities programs which do not correspond to any other ISCED program group code at this level, including:

Mas 05.0204: Islamic Studies

05.0205: Jewish/Judaic Studies

30.1301: Medieval and Renaissance Studies

Doc 05.0204: Islamic Studies

05.0205: Jewish/Judaic Studies

30.1301: Medieval and Renaissance Studies

726. Religion and Theology Programmes

Programs in religious studies and the theological vocations are reported separately inside the United States, but are combined here following ISCED practice. Graduate-level religious studies programs are classified as part of the academic humanities and typically lead to the award of research degrees (MA, PhD). Programs at the graduate level in the religious vocations may be first-professional degrees leading to rabbinical, priestly, or ministerial ordination; advanced professional practice credentials (master's or professional doctorates, especially the degree "Doctor of Ministry" (DMin)) in some vocational specialty; or research degrees (MA, ThM, PhD, ThD) in theology, biblical studies, or another field. As stated in previous chapters, direct graduate level vocational preparation for religious occupations is provided only by private colleges, seminaries, and universities. Public institutions offer graduate programs in the academic study of religion but not in religious training per se.²⁹

72600. Religion and Theology Programmes. This program group code corresponds to U.S. data reported for graduate programs in religion and the theological vocations. It includes:

1PD 39.0602: Divinity/Ministry (BD, MDiv)

39.0603: Rabbinical and Talmudic Studies (MHL, Rav)

²⁹ Refer to the discussion of this topic under broad fields 526 and 626 in chapters 7 and 8, and footnote 25 in chapter 7.

Mas 38.0201: Religion/Religious Studies
38.9999: Philosophy and Religion
39.0101: Biblical and Other Theological Languages and Literatures
39.0201: Bible/Biblical Studies
39.0301: Missions/Missionary Studies and Missiology
39.0401: Religious Education
39.0501: Religious/Sacred Music
39.0601: Theology/Theological Studies
39.0699: Theological and Ministerial Studies, Other
39.0701: Pastoral Counseling and Specialized Ministries
39.9999: Theological Studies and Religious Vocations, Other

Doc 38.0201: Religion/Religious Studies
38.9999: *Philosophy and Religion*
39.0101: *Biblical and Other Theological Languages and Literatures*
39.0201: Bible/Biblical Studies
39.0301: Missions/Missionary Studies and Missiology
39.0401: Religious Education
39.0501: *Religious/Sacred Music*
39.0601: Theology/Theological Studies
39.0699: Theological and Ministerial Studies, Other
39.0701: *Pastoral Counseling and Specialized Ministries*
39.9999: Theological Studies and Religious Vocations, Other

730. Social and Behavioural Science Programmes

The observations made about humanities programs at the U.S. equivalent of ISCED level 7 (see broad field 722, above) also apply to social sciences programs.

73001. General Programmes in the Social and Behavioural Sciences. This program group code needs to be inserted at ISCED level 7 (it appears at levels 5 and 6) in order to report data accurately on U.S. social sciences programs at the graduate level which are interdisciplinary in character. It includes:

Mas 45.0101: Social Sciences, General

Doc 45.0101: Social Sciences, General

73012. Economics Programmes. This program group code corresponds to U.S. data reported for graduate programs in economics. It includes:

- Mas 45.0601: Economics, General**
 - 45.0602: Applied and Resource Economics*
 - 45.0604: Development Economics and International Development*
 - 45.0605: International Economics*
 - 45.0699: Economics, Other*
- Doc 45.0601: Economics, General**
 - 45.0605: International Economics*
 - 45.0699: Economics, Other*

73022. Political Science Programmes. This program group code as defined in ISCED corresponds to U.S. data reported on graduate programs in international relations and political science. It includes:

- Mas 45.0901: International Relations and Affairs**
 - 45.1001: Political Science, General**
 - 45.1099: Political Science and Government, Other*
- Doc 45.0901: International Relations and Affairs**
 - 45.1001: Political Science, General**
 - 45.1099: Political Science and Government, Other*

73032. Sociology Programmes. This program group code corresponds to U.S. data reported for graduate programs in sociology. It includes:

- Mas 45.1101: Sociology**
- Doc 45.1101: Sociology**

73042. Anthropology Programmes. This program group code corresponds to U.S. data reported on graduate programs in anthropology. It includes:

- Mas 45.0201: Anthropology**
- Doc 45.0201: Anthropology**

73052. Programmes in Psychology. This program group code corresponds to U.S. data reported on graduate programs in psychology which may lead to research qualifications,

licensure to practice as clinicians, or both. It includes:

Mas 42.0101: Psychology, General
42.0201: Clinical Psychology
42.0301: Cognitive Psychology and Psycholinguistics
42.0401: Community Psychology
42.0601: Counseling Psychology
42.0701: Developmental and Child Psychology
42.0801: Experimental Psychology
42.0901: Industrial and Organizational Psychology
42.1101: *Physiological Psychology/Psychobiology*
42.1601: Social Psychology
42.1701: School Psychology
42.9999: Psychology, Other

Doc 42.0101: Psychology, General
42.0201: Clinical Psychology
42.0301: Cognitive Psychology and Psycholinguistics
42.0601: Counseling Psychology
42.0701: Developmental and Child Psychology
42.0801: Experimental Psychology
42.0901: Industrial and Organizational Psychology
42.1101: *Physiological Psychology/Psychobiology*
42.1601: Social Psychology
42.1701: School Psychology
42.9999: Psychology, Other

73062. Geography Programmes. This program group code corresponds to U.S. data reported on graduate programs in geography and cartography. It includes:

Mas 45.0701: Geography
45.0702: *Cartography*

Doc 45.0701: Geography

73072. Studies of Regional Cultures. This program group code corresponds to U.S. data reported for graduate programs in area studies. Such programs are usually grounded in a specific discipline's methodology and theory but consider research from a variety of perspectives and disciplines in approaching the subject studied. ISCED CODE 73072 includes:

Mas 05.0101: *African Studies*
05.0102: American Studies/Civilization

05.0103: Asian Studies
05.0104: East Asian Studies
05.0105: Eastern European Area Studies
05.0106: European Studies
05.0107: Latin American Studies
05.0108: Middle Eastern Studies
05.0109: Pacific Area Studies
05.0110: Russian and Slavic Area Studies
05.0111: Scandinavian Area Studies
05.0112: South Asian Studies
05.0113: Southeast Asian Studies
05.0114: Western European Studies
05.0199: Area Studies, Other

Doc *05.0101: African Studies*
05.0102: American Studies/Civilization
05.0103: Asian Studies
05.0104: East Asian Studies
05.0107: Latin American Studies
05.0108: Middle Eastern Studies
05.0110: Russian and Slavic Area Studies
05.0111: Scandinavian Area Studies
05.0112: South Asian Studies
05.0113: Southeast Asian Studies
05.0199: Area Studies, Other

73099. Other Programmes in Social and Behavioural Science. U.S. institutions offer other graduate study programs similar to area studies but dealing with minority group issues, urban issues, and issues pertaining to women. ISCED code 73099 corresponds to:

Mas **05.0201: Afro-American (Black) Studies**
05.0202: American Indian/Native American Studies
05.0203: Hispanic-American Studies
05.0207: Women's Studies
05.0299: Ethnic and Cultural Studies, Other
05.9999: Area, Ethnic, and Cultural Studies, Other
30.0501: Peace and Conflict Studies
45.0501: Demography/Population Studies
45.1201: Urban Affairs/Studies
45.9999: Social Sciences and History, Other

Doc *05.0201: Afro-American (Black) Studies*
05.0299: Ethnic and Cultural Studies, Other
05.9999: Area, Ethnic, and Cultural Studies, Other

45.0501: Demography/Population Studies
45.1201: Urban Affairs/Studies
45.9999: Social Sciences and History, Other

734. Business Administration and Related Programmes

U.S. business administration degrees at the master's degree level are predominantly professional in character. This is especially true of the "master's of business administration" (MBA) degree, which is designed for persons seeking immediate employment in managerial positions. Business doctorates are research oriented more often than not, as are master's degrees in some fields such as business economics, quantitative methods, and research.

Master's, specialist, and doctoral degrees in educational administration may be practice or research oriented, depending upon the focus of a particular institution's program and the study plan of a particular student. Graduate degrees in health administration and public administration follow the same pattern as in education.

73401. General Programmes in Business Administration. This program group code should be inserted at level 7 (it appears only at levels 5 and 6) to report data accurately and consistently for U.S. graduate programs in business administration which prepare management generalists or which specify no concentration. It corresponds to:

Mas **52.0101: Business, General**
 52.0201: Business Administration and Management, General

Doc **52.0101: Business, General**
 52.0201: Business Administration and Management, General

73426. Programmes in Management Information Systems. This program group code should be inserted at Level 7 (it appears only at Level 5) to report data accurately and consistently for U.S. graduate programs in management information systems. This program group code, as defined in ISCED, corresponds to:

Mas **52.1201: Management Information Systems and Business Data
 Processing, General**
 52.1204: Business Systems Networking and Telecommunications

Doc **52.1201: Management Information Systems and Business Data
 Processing, General**

73432. Programmes in Business Administration with Specialization in Accountancy. This program group code corresponds to U.S. data reported for graduate programs in accounting. It includes:

Mas 52.0301: Accounting
52.0399: Accounting, Other

Doc 52.0301: Accounting

73434. Programmes in Business Administration with Specialization in Marketing. This program group code corresponds to U.S. data reported for graduate programs in marketing. It includes:

Mas 08.0704: *General Buying Operations*
08.0708: **General Marketing Operations**
09.0201: **Advertising**
52.1401: **Business Marketing and Marketing Management, General**
52.1402: **Marketing Research**
52.1403: *International Business Marketing*
52.1499: **Marketing Management and Research, Other**

Doc 09.0201: *Advertising*
52.1401: **Business Marketing and Marketing Management, General**
52.1402: *Marketing Research*
52.1499: *Marketing Management and Research, Other*

73436. Programmes in Business Administration with Specialization in Finance and Investment. This program group code corresponds to U.S. data reported for graduate programs in financial management and related fields. It includes:

Mas 52.0801: **Finance, General**
52.0803: *Banking and Financial Support Services*
52.0804: *Financial Planning*
52.0805: **Insurance and Risk Management**
52.0805: *International Finance*
52.0807: **Investments and Securities**
52.0899: **Financial Management and Services, Other**
52.1601: **Taxation**

Doc 52.0801: **Finance, General**
52.0803: *Banking and Financial Support Services*
52.0805: *Insurance and Risk Management*

73439. Programmes in Business Administration with Other Specialization. A great many business administration specialties are not assigned separate categories in ISCED. Data reported on these programs needs to be assigned to the "other" program group. This program group code, as defined in ISCED, corresponds to:

Mas *08.0301: Entrepreneurship*
 52.0202: Purchasing, Procurement and Contracts Management
 52.0203: Logistics and Materials Management
 52.0205: Operations Management and Supervision
 52.0299: Business Administration and Management, Other
 52.0601: Business/Managerial Economics
 52.0701: Enterprise Management and Operation, General
 52.0901: Hospitality Administration/Management
 52.0902: Hotel/Motel and Restaurant Management
 52.0903: Travel and Tourism Management
 52.0901: Hospitality Services Management, Other
 52.1001: Human Resources Management
 52.1002: Labor/Personnel Relations and Studies
 52.1003: Organizational Behavior Studies
 52.1101: International Business
 52.1301: Management Science
 52.1302: Business Statistics
 52.1399: Business Quantitative Methods and Management
 Science, Other
 52.1501: Real Estate
 52.9999: Business Management and Administrative Services,
 Other

Doc **52.0205: Operations Management and Supervision**
 52.0299: Business Administration and Management, Other
 52.0601: Business/Managerial Economics
 52.0902: Hotel/Motel and Restaurant Management
 52.1001: Human Resources Management
 52.1002: Labor/Personnel Relations and Studies
 52.1003: Organizational Behavior Studies
 52.1101: International Business
 52.1301: Management Science
 52.1302: Business Statistics
 52.1399: Business Quantitative Methods and Management
 Science, Other
 52.1501: Real Estate
 52.9999: Business Management and Administrative Services,
 Other

73452. Programmes in Public Administration. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in public administration. It includes:

Mas 44.0401: Public Administration
44.0501: Public Policy Analysis
44.9999: Public Administration and Services, Other

Doc 44.0401: Public Administration
44.0501: Public Policy Analysis
44.9999: Public Administration and Services, Other

73462. Programmes in Institutional Administration. This program group code corresponds to U.S. data reported for the graduate programs which the ISCED system assigns to it, including education, health care, and nonprofit organization administration. The programs reporting data at this level are:

Mas 13.0401: Education Administration and Supervision, General
13.0402: Administration of Special Education
13.0403: Adult and Continuing Education Administration
13.0404: Educational Supervision
13.0405: Elementary, Middle, and Secondary School Administration
13.0406: Higher Education Administration
13.0407: Community and Junior College Administration
13.0499: Education Administration and Supervision, Other
51.0701: Health System/Health Services Administration
51.0702: Hospital/Health Facilities Administration
51.0707: *Medical Records Technology/Technician*
51.0799: Health and Medical Administrative Services, Other
52.0206: *Non-Profit and Public Management*

Doc 13.0401: Education Administration and Supervision, General
13.0402: Administration of Special Education
13.0403: Adult and Continuing Education Administration
13.0404: Educational Supervision
13.0405: Elementary, Middle, and Secondary School Administration
13.0406: Higher Education Administration
13.0407: *Community and Junior College Administration*
13.0499: Education Administration and Supervision, Other
51.0701: Health System/Health Services Administration
51.0702: *Hospital/Health Facilities Administration*
51.0707: *Medical Records Technology/Technician*
51.0799: Health and Medical Administrative Services, Other

738. Law and Jurisprudence Programmes

U.S. programs in law corresponding to ISCED level 7 include both first-professional degrees in law and advanced degrees. The first-professional degree in law is called *Juris Doctor* (JD); it was formerly called a bachelor of laws (LLB). First-professional law degrees are not specialist in nature. Specialization typically comes later, after a degree earner has been admitted to practice, obtained a job, and begun to focus on a career path. Master's degrees in law either prepare specialist practitioners or serve as an intermediate research qualification, depending on the program and the goals of the student. Most master's degrees in law are abbreviated LLM, but the abbreviation MCL is also encountered. This latter abbreviation stands for "master of comparative law" and is a degree awarded to foreign lawyers and scholars completing an advanced introductory program in U.S. law, and less frequently to U.S. holders of the JD degree who complete a program in the study of a foreign legal system or systems. The research doctorate in law is the Doctor of Juridical Science (SJD or JSD).

73801. General Programmes in Law. This program group code should be inserted at level 7 (it appears only at level 6) to report data accurately and consistently on U.S. graduate programs in law of a generalist character. The primary such award at this level is the first-professional degree in law. ISCED code 73801 includes:

1PD 22.0101: Law (LLB, JD)

Mas 22.0103: Paralegal/Legal Assistant

Doc No data currently reported.

73802. Programmes in Jurisprudence and History of Law. No U.S. program data corresponding to this program group code can be disaggregated from data reported elsewhere under this broad field (see 73899, below).

73804. Programmes in International Law. No U.S. program data corresponding to this program group code can be disaggregated from data reported elsewhere under this broad field (see 73899, below).

73806. Programmes in Labour Law. No U.S. program data corresponding to this program group code can be disaggregated from data reported elsewhere under this broad field (see 73899, below).

73808. Programmes in Maritime Law. No U.S. program data corresponding to this program group code can be disaggregated from data reported elsewhere under this broad

field (see 73899, below).

73899. Other Law and Jurisprudence Programmes. This program group code is the appropriate place to report U.S. data for graduate programs in law not elsewhere classifiable, including graduate level programs in legal scholarship. It corresponds to:

Mas 22.0104: Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)
22.0199: Law and Legal Studies, Other

Doc 22.0104: Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)
22.0199: Law and Legal Studies, Other

742. Natural Science Programmes

This ISCED broad field describes both biological and physical sciences programs at the graduate level. Graduate degrees in the sciences prepare students for research careers in academia as well as in government and private laboratories or other establishments.

74202. Biological Sciences Programmes. This program group code as defined in ISCED corresponds to U.S. data reported on the entire range of graduate-level biological science programs. ISCED code 74202 includes:

Mas 26.0101: Biology, General
26.0202: Biochemistry
26.0203: Biophysics
26.0301: Botany, General
26.0305: Plant Pathology
26.0307: Plant Physiology
26.0399: Botany, Other
26.0401: Cell Biology
26.0402: Molecular Biology
26.0499: Cell and Molecular Biology, Other
26.0501: Microbiology/Bacteriology
26.0601: Anatomy
26.0603: Ecology
26.0607: Marine/Aquatic Biology
26.0608: Neuroscience
26.0609: Nutritional Sciences
26.0610: Parasitology
26.0611: Radiation Biology/Radiobiology
26.0612: Toxicology
26.0613: Genetics, Plant and Animal

- 26.0614: Biometrics
 - 26.0615: Biostatistics
 - 26.0616: *Biotechnology Research*
 - 26.0618: *Biological Immunology*
 - 26.0619: *Virology*
 - 26.0699: Miscellaneous Biological Specializations, Other
 - 26.0701: Zoology, General
 - 26.0702: Entomology
 - 26.0704: Pathology, Human and Animal
 - 26.0705: Pharmacology, Human and Animal
 - 26.0706: Physiology, Human and Animal
 - 26.9999: Biological Sciences/Life Sciences, Other
- Doc
- 26.0101: Biology, General
 - 26.0202: Biochemistry
 - 26.0203: Biophysics
 - 26.0301: Botany, General
 - 26.0305: Plant Pathology
 - 26.0307: Plant Physiology
 - 26.0399: *Botany, Other*
 - 26.0401: Cell Biology
 - 26.0402: Molecular Biology
 - 26.0499: Cell and Molecular Biology, Other
 - 26.0501: Microbiology/Bacteriology
 - 26.0601: Anatomy
 - 26.0603: Ecology
 - 26.0607: Marine/Aquatic Biology
 - 26.0608: Neuroscience
 - 26.0609: Nutritional Sciences
 - 26.0610: *Parasitology*
 - 26.0611: *Radiation Biology/Radiobiology*
 - 26.0612: Toxicology
 - 26.0613: Genetics, Plant and Animal
 - 26.0614: Biometrics
 - 26.0615: Biostatistics
 - 26.0618: Biological Immunology
 - 26.0619: *Virology*
 - 26.0699: Miscellaneous Biological Specializations, Other
 - 26.0701: Zoology, General
 - 26.0702: Entomology
 - 26.0704: Pathology, Human and Animal
 - 26.0705: Pharmacology, Human and Animal
 - 26.0706: Physiology, Human and Animal
 - 26.0701: *Zoology, Other*
 - 26.9999: Biological Sciences/Life Sciences, Other

74212. Chemistry Programmes. This program group code corresponds to U.S. data reported for the following graduate programs in chemistry:

Mas 40.0501: Chemistry, General
40.0502: Analytical Chemistry
40.0503: *Inorganic Chemistry*
40.0504: *Organic Chemistry*
40.0505: Medicinal/Pharmaceutical Chemistry
40.0506: *Physical and Theoretical Chemistry*
40.0507: Polymer Chemistry
40.0599: Chemistry, Other

Doc 40.0501: Chemistry, General
40.0502: Analytical Chemistry
40.0503: *Inorganic Chemistry*
40.0504: *Organic Chemistry*
40.0505: Medicinal/Pharmaceutical Chemistry
40.0506: *Physical and Theoretical Chemistry*
40.0507: Polymer Chemistry
40.0599: Chemistry, Other

74222. Geological Sciences Programmes. This program group code corresponds to U.S. data reported for the following graduate programs in geology and related sciences:

Mas 40.0601: Geology
40.0602: Geochemistry
40.0603: Geophysics and Seismology
40.0604: *Paleontology*
40.0699: Geological and Related Sciences, Other

Doc 40.0601: Geology
40.0602: Geochemistry
40.0603: Geophysics and Seismology
40.0604: *Paleontology*
40.0699: Geological and Related Sciences, Other

74232. Physics Programmes. This program group code corresponds to U.S. data reported for the following graduate programs in physics:

Mas 40.0801: Physics, General
40.0806: *Nuclear Physics*
40.0807: Optics

40.0808: Solid State and Low-Temperature Physics
40.0899: Physics, Other

Doc 40.0801: Physics, General
40.0802: Chemical and Atomic/Molecular Physics
40.0806: Nuclear Physics
40.0807: Optics
40.0808: Solid State and Low-Temperature Physics
40.0899: Physics, Other

74242. Astronomy Programmes. This program group code corresponds to U.S. data reported for the following graduate programs in astronomy and astrophysics:

Mas 40.0201: Astronomy
40.0301: Astrophysics

Doc 40.0201: Astronomy
40.0301: Astrophysics

74252. Meteorology Programmes. This program group code corresponds to U.S. data reported for the following graduate program in atmospheric sciences and meteorology:

Mas 40.0401: Atmospheric Sciences and Meteorology

Doc 40.0401: Atmospheric Sciences and Meteorology

74262. Oceanography Programmes. This program group code corresponds to U.S. data reported for the following graduate program in oceanography:

Mas 40.0702: Oceanography

Doc 40.0702: Oceanography

74299. Other Natural Science Programmes. General programs in the physical sciences emphasizing no specific discipline, multidisciplinary programs, and a few specific programs in other science fields are offered at this level in the United States. This program group code as defined in ISCED corresponds to:

Mas 30.0101: Biological and Physical Sciences
30.0601: Systems Science and Theory
40.0101: Physical Sciences, General

40.0701: Metallurgy
40.0703: Earth and Planetary Sciences
40.0799: Miscellaneous Physical Sciences, Other
40.9999: Physical Sciences, Other

Doc 30.0101: Biological and Physical Sciences
30.0601: Systems Science and Theory
40.0701: Metallurgy
40.0703: Earth and Planetary Sciences
40.0799: Miscellaneous Physical Sciences, Other
40.9999: Physical Sciences, Other

746. Mathematics and Computer Science Programmes

Data on both of these program Series are combined in this ISCED broad field, although they are reported separately within the United States. Graduate degrees in both the mathematical and computer fields prepare students for a variety of careers in research, industry, business, and government.

74601. General Programmes in Mathematics. This program group code should be inserted at level 7 (it appears at level 6) to report data accurately and consistently on U.S. graduate programs in mathematics, the majority of which do not specify a subfield concentration in the degree title. It corresponds to:

Mas 27.0101: Mathematics

Doc 27.0101: Mathematics

74611. Programmes in Statistics. This program group code corresponds to U.S. data reported for the following graduate programs in statistics:

Mas 27.0501: Mathematical Statistics

Doc 27.0501: Mathematical Statistics

74621. Programmes in Actuarial Science. Actuarial science programs are classified as a business application in the United States, since the field primarily prepares technical experts employed in the insurance and risk-assessment industries. This program group code corresponds to U.S. data reported for the following graduate programs in actuarial science:

Mas 52.0802: Actuarial Science

Doc No data currently reported.

74639. Other Programmes in Mathematics. Other mathematics programs for which graduate data are reported in the United States include:

Mas 27.0301: Applied Mathematics, General
27.0302: Operations Research
27.0399: Applied Mathematics, Other
27.9999: Mathematics, Other
30.0801: Mathematics and Computer Science

Doc 27.0301: Applied Mathematics, General
27.0302: Operations Research
27.0399: Applied Mathematics, Other
27.9999: Mathematics, Other

74641. Programmes in Computer Science. This program group code corresponds to U.S. data reported for the following graduate programs in computer and information sciences:

Mas 11.0101: Computer and Information Sciences, General
11.0201: Computer Programming
11.0301: Data Processing Technology/Technician
11.0401: Information Sciences and Systems
11.0501: Computer Systems Analysis
11.0701: Computer Science
11.9999: Computer and Information Sciences, Other

Doc 11.0101: Computer and Information Sciences, General
11.0401: Information Sciences and Systems
11.0501: Computer Systems Analysis
11.0701: Computer Science
11.9999: Computer and Information Sciences, Other

750. Medical Diagnostic and Treatment Programmes

The following listing corresponds to those U.S. program codes in these categories for which data at this level are reported. Some allied health programs are offered at the graduate level, reflecting the increasing complexity and knowledge requirements in these occupations as well as the need to prepare persons with expertise in the fields who can manage support operations within hospitals and other health care facilities. First-professional degrees in

dentistry, medicine, and other health professions are reported at this level. As with law (see broad field 722), first-professional degrees in the health professions are primarily generalist in content. Specialization occurs during the internship, in post-degree residencies, and at the research degree level. Medical research degrees are the same as those in the sciences, the master's (MS, standing for "master of science," not surgery) and research doctorate (PhD). First-professional degrees use the term "doctor" in the title (MD, DDS, OD, DPM, PharmD, DC) but are not equivalent to research doctorates (or master's degrees, either) and should not be confused with advanced credentials in the medical sciences. Master's and doctorates in the health treatment fields, such as nursing, public health, rehabilitation, and others, may be practice or research oriented depending on the program and the goals of the student.

75002. Programmes in Public Health. This program group code should be inserted at level 7 (it appears only at level 6) in order to report data accurately and consistently for U.S. graduate programs in public health and related fields. It corresponds to:

Mas 51.0301: Community Health Liason
 51.2201: Public Health, General
 51.2202: Environmental Health
 51.2203: Epidemiology
 51.2204: *Health and Medical Biostatistics*
 51.2205: *Health Physics/Radiologic Health*
 51.2206: *Occupational Health and Industrial Hygiene*
 51.2207: Public Health Education and Promotion
 51.2299: Public Health, Other

Doc 51.0301: Community Health Liason
 51.2201: Public Health, General
 51.2202: *Environmental Health*
 51.2203: Epidemiology
 51.2204: *Health and Medical Biostatistics*
 51.2206: *Occupational Health and Industrial Hygiene*
 51.2207: *Public Health Education and Promotion*
 51.2299: *Public Health, Other*

75006. Programmes in Medical Specialities. Professional medical education programs in the United States are first-professional programs and may be in either allopathic (MD) or osteopathic (DO) medicine. Likewise, some programs for physician's assistants (persons with independent diagnostic and treatment authority who serve alongside physicians) are offered at the graduate level, as are research programs in what are called the clinical sciences. The clinical sciences include those residency programs for physicians which result in the award of an academic degree; most residencies do not and are thus not reported as education statistics. ISCED code 75006 corresponds to:

- 1PD 51.1201: Medicine (MD)**
51.1901: Osteopathic Medicine (DO)
- Mas 51.0807: Physician Assistant**
51.1401: Medical Clinical Sciences (MS, PhD)
- Doc 51.1401: Medical Clinical Sciences (MS, PhD)**

75008. Rehabilitation Medicine Programmes. This program group code should be inserted at level 7 (it appears at levels 5 and 6) to report data accurately and consistently for U.S. graduate programs in the rehabilitation and therapeutic health fields. It corresponds to:

- Mas 51.2301: Art Therapy**
51.2302: Dance Therapy
51.2303: Music Therapy
51.2306: Occupational Therapy
51.2308: Physical Therapy
51.2309: Recreational Therapy
51.2310: Vocational Rehabilitation Counseling
51.2399: Rehabilitation/Therapeutic Services, Other
- Doc 51.2308: Physical Therapy**
51.2309: Recreational Therapy
51.2310: Vocational Rehabilitation Counseling
51.2399: Rehabilitation/Therapeutic Services, Other

75012. Programmes in Nursing. This program group code should be inserted at level 7 (it appears at levels 2, 3, 5, and 6) to report data accurately and consistently for U.S. graduate programs in nursing. It corresponds to:

- Mas 51.1601: Nursing (R.N. Training)**
51.1602: Nursing Administration
51.1603: Nursing, Adult Health
51.1604: Nursing Anesthetist
51.1605: Nursing, Family Practice
51.1606: Nursing, Maternal/Child Health
51.1608: Nursing Science
51.1609: Nursing, Pediatric
51.1610: Nursing, Psychiatric/Mental Health
51.1611: Nursing, Public Health
51.1612: Nursing, Surgical
51.1699: Nursing, Other

Doc **51.1601: Nursing (R.N. Training)**
 51.1602: Nursing Administration
 51.1606: Nursing, Maternal/Child Health
 51.1608: Nursing Science
 51.1611: Nursing, Public Health
 51.1612: Nursing, Surgical
 51.1699: Nursing, Other

75017. Programmes in Medical X-Ray Technology. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in radiologic technology. It includes:

Mas **51.0907: Medical Radiologic Technology/Technician**

Doc No data currently reported.

75019. Other Programmes in Medical Diagnostic and Treatment Technology Except Dental Technology. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in medical diagnostic and treatment services other than radiologic technology (see 65017, above). It includes:

Mas *51.0904: Emergency Medical Technology/Technician*
 51.0999: Health and Medical Diagnostic and Treatment Services,
 Other

Doc No data currently reported.

75030. Medical Technology Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in medical laboratory technology. It includes:

Mas *51.1001: Blood Bank Technology/Technician*
 51.1004: Medical Laboratory Technician
 51.1005: Medical Technology
 51.1099: Health and Medical Laboratory Technologies/
 Technicians, Other

Doc *51.1005: Medical Technology*
 51.1099: Health and Medical Laboratory Technologies/
 Technicians, Other

75042. Programmes in Dental and Stomatological Specialties. Professional dental education programs in the United States are first-professional programs. As with medicine (see 75006, above), research programs in what are called the dental clinical sciences are also offered, including those residency programs for dentists which result in the award of an academic degree; most residencies do not result in such awards and are thus not reported as education statistics. ISCED code 75042 corresponds to:

1PD 51.0401: Dentistry (DDS, DMD)

Mas 51.0501: Dental Clinical Sciences/Graduate Dentistry (MS, PhD)

Doc 51.0501: Dental Clinical Sciences/Graduate Dentistry (MS, PhD)

75046. Other Programmes in Dental Services. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in dental services. It includes:

Mas 51.0602: Dental Hygienist
51.0699: Dental Services, Other

Doc No data currently reported.

75052. Programmes in Pharmacy. U.S. professional pharmacy programs are currently undergoing a change from 5- or 6-year programs leading to a bachelor's degree (BPharm), which might or might not have been preceded by a first bachelor's degree, to first-professional degree programs called "doctor of pharmacy" (PharmD). Data are thus now reported as for other first-professional degrees. Advanced programs for pharmacy administrators and research scientists are also offered. ISCED code 75052 corresponds to:

1PD 51.2001: Pharmacy (BPharm, PharmD)

Mas 51.2002: Pharmacy Administration and Pharmaceutics
51.2003: Medical Pharmacology and Pharmaceutical Sciences
51.2099: Pharmacy, Other

Doc 51.2002: Pharmacy Administration and Pharmaceutics
51.2003: Medical Pharmacology and Pharmaceutical Sciences
51.2099: Pharmacy, Other

75062. Optometry Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in professional optometry and related services. Optometry is a first-professional

degree program in the U.S. ISCED code 75062 corresponds to:

1PD 51.1701: Optometry (OD)

Mas 51.1899: Ophthalmic/Optometric Services, Other

Doc 51.1899: Ophthalmic/Optometric Services, Other

75099. Other Medical Diagnostic and Treatment Programmes. A large number of U.S. health professions programs cannot be reported separately because there are no corresponding program group codes assigned in ISCED. They include:

1PD 51.0101: Chiropractic (DC, DCM)

51.2101: Podiatry (DPM, DP, PodD)

Mas 51.0201: Communication Disorders, General

51.0202: Audiology/Hearing Sciences

51.0203: Speech-Language Pathology

51.0204: Speech-Language Pathology and Audiology

51.0299: Communication Disorders Sciences and Services, Other

51.0801: Medical Assistant

51.1199: Health and Medical Preparatory Programs, Other

51.1301: Medical Anatomy

51.1302: Medical Biochemistry

51.1306: Medical Genetics

51.1307: Medical Immunology

51.1308: Medical Microbiology

51.1309: Medical Molecular Biology

51.1311: Medical Nutrition

51.1312: Medical Pathology

51.1313: Medical Physiology

51.1399: Basic Medical Sciences, Other

51.1501: Alcohol/Drug Abuse Counseling

51.1502: Psychiatric/Mental Health Services Technician

51.1503: Clinical and Medical Social Work

51.1599: Mental Health Services, Other

51.2701: Acupuncture and Oriental Medicine

51.2703: Medical Illustrating

51.2705: Psychoanalysis

51.9999: Health Professions and Related Sciences, Other

Doc 51.0201: Communication Disorders, General

51.0202: Audiology/Hearing Sciences

51.0203: Speech-Language Pathology

51.0204: Speech-Language Pathology and Audiology
51.0299: Communication Disorders Sciences and Services, Other
51.1301: Medical Anatomy
51.1302: Medical Biochemistry
51.1306: Medical Genetics
51.1307: Medical Immunology
51.1308: Medical Microbiology
51.1309: Medical Molecular Biology
51.1310: Medical Neurobiology
51.1312: Medical Pathology
51.1313: Medical Physiology
51.1314: Medical Toxicology
51.1399: Basic Medical Sciences, Other
51.1599: Mental Health Services, Other
51.2701: Acupuncture and Oriental Medicine
51.2704: Naturopathic Medicine
51.9999: Health Professions and Related Sciences, Other

752. Trade, Craft and Industrial Programmes, n.e.c.

This ISCED broad field should be inserted at level 7 in order to report data accurately and consistently for U.S. graduate programs in the food processing and scientific technologies, which are classified under it.

75212. Programmes in Food Processing. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs preparing food processing industry managers. It corresponds to:

Mas *01.0401: Agricultural and Food Products Processing Operations and Management*

Doc *01.0401: Agricultural and Food Products Processing Operations and Management*

75284. Scientific Laboratory Technology Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in scientific technology. It corresponds to:

Mas *41.0101: Biological Technology/Technician*
41.9999: Science Technologies/Technicians, Other

Doc *41.0101: Biological Technology/Technician*

754. Engineering Programmes

Engineering and some engineering technology programs are offered at the graduate level in the United States. At the master's degree level such programs may be either practice or research oriented; doctoral programs are typically research oriented.

75402. Programmes in Surveying. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in surveying. It corresponds to:

Mas 15.1102: Surveying

Doc 15.1102: Surveying

75412. Chemical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in chemical engineering and related fields. It includes:

Mas 14.0601: Ceramic Sciences and Engineering
14.0701: Chemical Engineering
14.3201: Polymer/Plastics Engineering

Doc 14.0601: Ceramic Sciences and Engineering
14.0701: Chemical Engineering
14.3201: Polymer/Plastics Engineering

75416. Civil Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in civil engineering and related fields. It includes:

Mas 14.0801: Civil Engineering, General
14.0804: Transportation and Highway Engineering
14.0899: Civil Engineering, Other
14.2401: Ocean Engineering
15.0201: Civil Engineering/Civil Technology/Technician
15.1001: Construction/Building Technology/Technician

Doc 14.0801: Civil Engineering, General
14.2401: Ocean Engineering

75422. Electrical and Electronics Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in electrical and electronics engineering and related fields. It includes:

- Mas 14.0901: Computer Engineering**
14.1001: Electrical, Electronics and Communications Engineering
15.0301: Computer Engineering Technology/Technician
15.0403: Electromechanical Technology/Technician
15.0404: Instrumentation Technology/Technician

- Doc 14.0901: Computer Engineering**
14.1001: Electrical, Electronics and Communications Engineering
15.0404: Instrumentation Technology/Technician

75426. Industrial Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in industrial engineering and related fields. It includes:

- Mas 14.1701: Industrial/Manufacturing Engineering**
14.3001: Engineering/Industrial Management
15.0603: Industrial/Manufacturing Technology/Technician
15.0699: Industrial Production Technologies/Technicians, Other
15.0701: Occupational Safety and Health Technology/Technician
15.0702: Quality Control Technology/Technician
15.0799: Quality Control and Safety Technologies/Technicians, Other

- Doc 14.1701: Industrial/Manufacturing Engineering**
14.3001: Engineering/Industrial Management
15.0603: Industrial/Manufacturing Technology/Technician

75432. Metallurgical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in metallurgical engineering and related fields. It includes:

- Mas 14.2001: Metallurgical Engineering**

- Doc 14.2001: Metallurgical Engineering**

75436. Mining Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in mining engineering and related fields. It includes:

Mas 14.1501: Geological Engineering
14.2101: Mining and Mineral Engineering

Doc 14.1501: Geological Engineering
14.2101: Mining and Mineral Engineering

75442. Mechanical Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in mechanical engineering and related fields. It includes:

Mas 14.0201: Aerospace, Aeronautical, and Astronautical Engineering
14.1901: Mechanical Engineering
14.2201: Naval Architecture and Marine Engineering
15.0801: Aeronautical and Aerospace Engineering Technology/
Technician
15.0803: Automotive Engineering Technology/Technician
15.0805: Mechanical Engineering/Mechanical Technology/
Technician
15.0899: Mechanical Engineering-Related Technologies/
Technicians, Other
15.1103: Hydraulics Technology/Technician

Doc 14.0201: Aerospace, Aeronautical, and Astronautical Engineering
14.1901: Mechanical Engineering
14.2201: Naval Architecture and Marine Engineering

75453. Agricultural Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. data reported for graduate programs in agricultural engineering. It includes:

Mas 14.0301: Agricultural Engineering

Doc 14.0301: Agricultural Engineering

75463. Forestry Engineering Programmes. This program group code as defined in ISCED corresponds to U.S. program data which cannot be disaggregated from data reported under forestry (see 76262). Consequently, no U.S. program data exist.

75499. Other Engineering Programmes. This program group code as defined in ISCED corresponds to data reported for a wide variety of programs for which no specific ISCED assignment exists. These include:

- | | |
|------------|---|
| Mas | 14.0101: Engineering, General
14.0501: Bioengineering and Biomedical Engineering
14.1101: Engineering Mechanics
14.1201: Engineering Physics
14.1301: Engineering Science
14.1401: Environmental/Environmental Health Engineering
<i>14.1601: Geophysical Engineering</i>
14.1801: Materials Engineering
14.2301: Nuclear Engineering
14.2501: Petroleum Engineering
14.2701: Systems Engineering
14.2801: Textile Sciences and Engineering
14.3101: Materials Science
14.9999: Engineering, Other
<i>15.0304: Laser and Optical Technology/Technician</i>
<i>15.0506: Water Quality and Wastewater Treatment Technology/Technician</i>
<i>15.0507: Environmental and Pollution Control Technology/Technician</i>
15.0599: Environmental Control Technologies/Technicians, Other
<i>15.1101: Engineering-Related Technology/Technician, General</i>
15.9999: Engineering-Related Technologies/Technicians, Other
<i>41.0204: Industrial Radiologic Technology/Technician</i> |
| Doc | 14.0101: Engineering, General
14.0501: Bioengineering and Biomedical Engineering
14.1101: Engineering Mechanics
14.1201: Engineering Physics
14.1301: Engineering Science
14.1401: Environmental/Environmental Health Engineering
<i>14.1601: Geophysical Engineering</i>
14.1801: Materials Engineering
14.2301: Nuclear Engineering
14.2501: Petroleum Engineering
14.2701: Systems Engineering
<i>14.2801: Textile Sciences and Engineering</i>
14.3101: Materials Science
14.9999: Engineering, Other
<i>15.9999: Engineering-Related Technologies/Technicians,</i> |

758. Architectural and Town-Planning Programmes

The basic U.S. professional degree in architecture awarded at the graduate level is the master's degree in architecture (MArch). This degree, and others awarded in related fields, may lead to professional licensure and practice or to further study culminating in a research doctorate (DArch, PhD).

75801. General Programmes in Architecture. This program group code should be inserted at level 7 (it appears at levels 5 and 6) to report data accurately and consistently for U.S. graduate programs in architecture. It corresponds to:

Mas 04.0201: Architecture

Doc 04.0201: Architecture

75802. Programmes in Structural Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in architectural engineering and related fields. It includes:

Mas 04.0501: Interior Architecture
14.0401: Architectural Engineering
14.0803: Structural Engineering
15.0101: Architectural Engineering Technology/Technician

Doc 04.0501: Interior Architecture

75812. Programmes in Landscape Architecture. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in landscape architecture. It includes:

Mas 04.0601: Landscape Architecture

Doc 04.0601: Landscape Architecture

75822. Programmes in Town or Community Planning. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in urban planning and related fields. It includes:

Mas 04.0301: City/Urban, Community, and Regional Planning
04.0401: Architectural Environmental Design
04.0701: Architectural Urban Design and Planning

Doc 04.0301: City/Urban, Community, and Regional Planning
04.0401: *Architectural Environmental Design*

75899. Other Programmes in Architecture and Town Planning. This code should be inserted at level 7 to report accurately U.S. data on architectural and related programs not elsewhere classified. It corresponds to:

Mas 04.9999: Architecture and Related Programs, Other
30.1201: Historic Preservation, Conservation, and Architectural History

Doc 04.9999: *Architecture and Related Programs, Other*

762. Agricultural, Forestry and Fishery Programmes

This broad field at level 7 includes first-professional programs in veterinary medicine and graduate programs in the veterinary clinical sciences (see the explanations under 75002 and 75042, above, which are similar). Graduate master's degree programs in professional fields such as forestry are often practice oriented, while graduate degree programs in the agricultural sciences are primarily research oriented.

76201. General Programmes in Agriculture. This program group code should be inserted at level 7 (it appears at level 6) in order to report data accurately and consistently for U.S. graduate programs in agriculture whose titles do not identify a specialization. It includes:

Mas 01.0101: Agricultural Business and Management, General
01.0301: *Agricultural Production Workers and Managers, General*
02.0101: Agriculture/Agricultural Sciences, General

Doc 01.0101: *Agricultural Business and Management, General*
02.0101: *Agriculture/Agricultural Sciences, General*

76203. Animal Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in animal husbandry, agricultural animal sciences, and related fields. It includes:

Mas 01.0302: *Agricultural Animal Husbandry and Production Management*
 01.0303: *Aquaculture Operations and Production Management*
 01.0399: *Agricultural Production Workers and Managers, Other*
02.0201: Animal Sciences, General
 02.0202: *Agricultural Animal Breeding and Genetics*
 02.0203: *Agricultural Animal Health*
 02.0204: *Agricultural Animal Nutrition*
 02.0205: *Agricultural Animal Physiology*
02.0206: Dairy Science
02.0209: Poultry Science
02.0299: Animal Sciences, Other

Doc 01.0303: *Aquaculture Operations and Production Management*
02.0201: Animal Sciences, General
 02.0202: *Agricultural Animal Breeding and Genetics*
 02.0203: *Agricultural Animal Health*
 02.0204: *Agricultural Animal Nutrition*
 02.0205: *Agricultural Animal Physiology*
02.0206: Dairy Science
02.0209: Poultry Science
02.0299: Animal Sciences, Other

76206. Horticulture Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in horticulture science and the provision of various horticultural services. It corresponds to:

Mas 01.0601: **Horticulture Services Operations and Management, General**
 01.0603: **Ornamental Horticulture Operations and Management**
 02.0403: **Horticulture Science**

Doc 01.0601: *Horticulture Services Operations and Management, General*
 01.0603: *Ornamental Horticulture Operations and Management*
 01.0601: *Horticulture Services Operations and Management, Other*
02.0403: Horticulture Science

76208. Crop Husbandry Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in crop production and domesticated plant sciences. It corresponds to:

Mas 01.0304: *Crop Production Operations and Management*
 02.0401: **Plant Sciences, General**
 02.0402: **Agronomy and Crop Science**
 02.0405: *Plant Breeding and Genetics*
 02.0406: *Agricultural Plant Pathology*
 02.0408: **Plant Protection (Pest Management)**
 02.0409: **Range Science and Management**
 02.0499: **Plant Sciences, Other**

Doc 01.0304: *Crop Production Operations and Management*
 02.0401: **Plant Sciences, General**
 02.0402: **Agronomy and Crop Science**
 02.0405: *Plant Breeding and Genetics*
 02.0406: *Agricultural Plant Pathology*
 02.0407: *Agricultural Plant Physiology*
 02.0408: *Plant Protection (Pest Management)*
 02.0409: **Range Science and Management**
 02.0499: *Plant Sciences, Other*

76212. Agricultural Economics Programmes. This program group code as defined in ISCED includes various agricultural business-related subjects as well as agricultural economics. The corresponding U.S. graduate program data are reported under:

Mas 01.0102: **Agricultural Business/Agribusiness Operations**
 01.0103: **Agricultural Economics**
 01.0104: *Farm and Ranch Management*
 01.0199: *Agricultural Business and Management, Other*

Doc 01.0103: **Agricultural Economics**

76222. Food Sciences and Technology Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in food science and technology. It includes:

Mas 02.0301: **Food Science and Technology**

Doc 02.0301: **Food Science and Technology**

76226. Soil and Water Sciences Programmes. ISCED defines this program group code as referring to soil and water programs of different types at different levels. U.S. water resources programs pertaining to agriculture cannot be disaggregated from water resources programs reported under engineering and related technologies (see broad field 754) or

elsewhere in the agriculture field. Corresponding U.S. graduate program data for soil sciences are reported under:

Mas 02.0501: Soil Sciences

Doc 02.0501: Soil Sciences

76232. Programmes in Veterinary Medicine. Veterinary medicine is a first-professional program in the United States. This program group code as defined in ISCED corresponds to data reported for programs preparing veterinarians and for programs representing advanced degrees in those cases where veterinary medicine residencies result in the award of higher degrees. It includes:

1PD 51.2401: Veterinary Medicine (DVM)

Mas 51.2501: Veterinary Clinical Sciences (MS, PhD)

Doc 51.2501: Veterinary Clinical Sciences (MS, PhD)

76249. Other Programmes in Agriculture. A number of other graduate agriculture-related programs are not assigned specific ISCED codes and should be reported here. They include:

Mas 01.0201: *Agricultural Mechanization, General*
01.0299: *Agricultural Mechanization, Other*
01.0701: *International Agriculture*
01.9999: Agricultural Business and Production, Other
02.9999: Agriculture/Agricultural Sciences, Other

Doc 01.0299: *Agricultural Mechanization, Other*
01.9999: *Agricultural Business and Production, Other*
02.9999: *Agriculture/Agricultural Sciences, Other*

76262. Programmes in Forestry and Forest-Product Techniques. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in various forestry specializations and wildlife management. It includes:

**Mas 03.0401: Forest Harvesting and Production Technology/
Technician**
03.0499: *Forest Production and Processing, Other*
03.0501: Forestry, General
03.0502: Forestry Sciences
03.0506: Forest Management

03.0509: Wood Science and Pulp/Paper Technology
03.0599: Forestry and Related Sciences, Other
03.0601: Wildlife and Wildlands Management

**Doc 03.0401: Forest Harvesting and Production Technology/
Technician**
03.0501: Forestry, General
03.0502: Forestry Sciences
03.0506: Forest Management
03.0509: Wood Science and Pulp/Paper Technology
03.0599: Forestry and Related Sciences, Other
03.0601: Wildlife and Wildlands Management

76272. Programmes in Fishery Science and Technology. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs in fisheries science and the management of fishing operations. It includes:

Mas 03.0301: Fishing and Fisheries Sciences and Management

Doc 03.0301: Fishing and Fisheries Sciences and Management

766. Home Economics (Domestic Science) Programmes

Only programs corresponding to the ISCED definition of home economics, and for which data are reported at this level, are included below. (See broad field 566 for an explanation of U.S. reporting practices in this field.) U.S. graduate home economics programs prepare students for employment as researchers, teachers, independent consultants, and as professional staff in corporations and service organizations.

76601. General Programmes in Home Economics. This program group code should be inserted at level 7 (it appears only at level 6) to report data accurately and consistently for U.S. graduate programs in home economics which do not specify a subfield in the title. It includes:

Mas 19.0101: Home Economics, General

Doc 19.0101: Home Economics, General

76612. Programmes in Household and Consumer Foods Research; Nutrition. This program group code as defined in ISCED includes institutional food services as well as home consumer and nutrition programs. U.S. graduate program data are reported under:

Mas 19.0401: Family Resource Management Studies
 19.0402: Consumer Economics and Science
 19.0499: Family/Consumer Resource Management, Other
 19.0501: Foods and Nutrition Studies, General
 19.0502: Foods and Nutrition Science
 19.0503: Dietetics/Human Nutritional Services
 19.0599: Foods and Nutrition Studies, Other
 20.0401: Institutional Food Workers and Administrators,
 General

Doc 19.0401: Family Resource Management Studies
 19.0402: Consumer Economics and Science
 19.0499: Family/Consumer Resource Management, Other
 19.0501: Foods and Nutrition Studies, General
 19.0502: Foods and Nutrition Science
 19.0503: Dietetics/Human Nutritional Services
 19.0599: Foods and Nutrition Studies, Other

76622. Programmes in Home Economics with Emphasis on Child Care. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in child and family studies and the training of child care professionals. It includes:

Mas 19.0701: Individual and Family Development Studies, General
 19.0706: Child Growth, Care, and Development Studies
 19.0799: Individual and Family Development Studies, Other
 20.0201: Child Care and Guidance Workers and Managers,
 General
 20.0203: Child Care Services Manager

Doc 19.0701: Individual and Family Development Studies, General
 19.0706: Child Growth, Care, and Development Studies
 19.0799: Individual and Family Development Studies, Other
 20.0203: Child Care Services Manager

76632. Programmes in Household Arts. This program group code as defined in ISCED includes both housing/interiors studies and clothing and textile programs. Corresponding U.S. graduate programs for which data are reported include:

Mas 19.0601: Housing Studies, General
 19.0699: Housing Studies, Other
 19.0901: Clothing/Apparel and Textile Studies
 20.0501: Home Furnishings and Equipment Installers and

Consultants, General

- Doc** 19.0601: *Housing Studies, General*
19.0901: **Clothing/Apparel and Textile Studies**

76699. Other Home Economics Programmes. This program group code as defined in ISCED corresponds to graduate program data reported on a variety of U.S. home economics fields, including:

- Mas** 19.0202: *Home Economics Communications*
19.0301: **Family and Community Studies**
19.0704: **Family Life and Relations Studies**
19.9999: **Home Economics, Other**
20.0601: *Custodial, Housekeeping and Home Services Workers and Managers, General*

- Doc** 19.0301: *Family and Community Studies*
19.0704: *Family Life and Relations Studies*
19.9999: *Home Economics, Other*
20.0601: *Custodial, Housekeeping and Home Services Workers and Managers, General*
20.9999: *Vocational Home Economics, Other*

770. Transport and Communications Programmes

This ISCED broad field should be inserted at level 7 in order to report data consistently for U.S. graduate degree programs in certain fields defined in ISCED as transportation and communications. These include graduate programs in aviation.

77002. Air Crew Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs preparing flight crew for long-range commercial airlines. Standards for such crew positions differ from other commercial aviation in requiring extensive familiarity with engineering technology, law and regulations, navigation, management, and psychology. ISCED code 77002 includes:

- Mas** 49.0102: *Aircraft Pilot and Navigator (Professional)*

- Doc** No data currently reported.

77029. Other Communications Programmes. This program group code should be

inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs preparing various types of aviation management personnel not elsewhere classified. ISCED code 77029 includes:

Mas 49.0104: *Aviation Management*
49.9999: *Transportation and Materials Moving Workers,*
Other

Doc No data currently reported.

778. Service Programmes

This ISCED broad field should be inserted at level 7 in order to report data consistently for U.S. graduate degree programs in certain fields classified under this ISCED location. These include programs preparing professionals in the hospitality, tourism, and marketing fields.

77822. Hotel and Restaurant Services Programmes. This program group code should be inserted at level 7 (it appears only at level 3) to report data accurately and consistently for U.S. graduate programs in restaurant management. It corresponds to:

Mas 12.0504: *Food and Beverage/Restaurant Operations Manager*

Doc No data currently reported.

77862. Retailing Programmes. This program group code should be inserted at level 7 (it appears only at level 3) to report data accurately and consistently for U.S. graduate retail services programs. It corresponds to:

Mas 08.0102: *Fashion Merchandising*
08.9999: *Marketing Operations/Marketing and Distribution,*
Other

Doc 08.0102: *Fashion Merchandising*

77872. Tourism and Travel Services Programmes. This program group code should be inserted at level 7 (it appears only at level 3) to report data accurately and consistently for U.S. graduate programs in tourism. It corresponds to:

Mas 08.1104: *Tourism Promotion Operations*

Doc No data currently reported.

784. Programmes in Mass Communications and Documentation

This ISCED broad field code includes the journalism and communications fields, library science and related fields, and miscellaneous technical programs associated with audiovisual communications. Each of these is reported separately in the United States but are combined for ISCED reporting purposes. Graduate programs in these fields prepare students for professional employment and research and teaching positions.

78402. Journalism Programmes. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs related to journalism and mass communications, including:

- Mas 09.0401: Journalism**
09.0403: Mass Communications
09.0499: Journalism and Mass Communications, Other
- Doc 09.0401: Journalism**
09.0403: Mass Communications

78404. Programmes in Radio and Television Broadcasting. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs related to broadcast communications, including:

- Mas 09.0402: Broadcast Journalism**
09.0701: Radio and Television Broadcasting
**10.0104: Radio and Television Broadcasting Technology/
Technician**
- Doc 09.0402: Broadcast Journalism**
09.0701: Radio and Television Broadcasting
*10.0104: Radio and Television Broadcasting Technology/
Technician*

78407. Public Relations Programmes. This program group code as defined in ISCED corresponds to data reported for U.S. graduate programs under the following code:

- Mas 09.0501: Public Relations and Organizational Communications**
- Doc** No data currently reported.

78409. Other Programmes in Communications Arts. This program group code as defined in ISCED corresponds to graduate data reported for U.S. communications programs not elsewhere classified, including:

Mas 09.0101: Communications, General
09.9999: Communications, Other
10.0199: Communications Technologies/Technicians, Other

Doc 09.0101: Communications, General
09.9999: Communications, Other

78422. Library Science Programmes. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs in library science, including:

Mas 25.0101: Library Science/Librarianship
25.9999: Library Science, Other

Doc 25.0101: Library Science/Librarianship
25.9999: Library Science, Other

78425. Programmes for Museum Curators and Administrators. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in museum studies. U.S. museum curators and administrators generally possess degrees in either an academic discipline related to the field of curatorial responsibility or a degree in a support field such as management, law, education, or public relations. Museum studies programs prepare entry-level professional curatorial staff and serve as adjuncts to parallel degree programs in a discipline. ISCED code 68425 includes:

Mas 30.1401: Museology/Museum Studies

Doc No data currently reported.

789. Other Education at the Third Level, Second Stage of the Type that Leads to a Post-Graduate University Degree or the Equivalent

ISCED uses this broad field to report data on a variety of classified programs as well as "other" or "unknown" programs. The identifiable program classifications assigned here include social work, community organization, R.O.T.C. programs, public safety (fire and law enforcement) programs, physical education and recreation, and natural resources and conservation. Data for these fields reported at level 7 refer to graduate programs preparing students for professional careers in research or practice.

78912. Programmes in Criminal Justice. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in law enforcement other than criminology (see 78913, below). It includes:

Mas 43.0102: Corrections/Correctional Administration
43.0103: Criminal Justice/Law Enforcement Administration
43.0104: Criminal Justice Studies
43.0106: Forensic Technology/Technician
43.0107: Law Enforcement/Police Science
43.0109: *Security and Loss Prevention Services*
43.0199: Criminal Justice and Corrections, Other

Doc 43.0103: *Criminal Justice/Law Enforcement Administration*
43.0104: Criminal Justice Studies

78913. Programmes in Criminology. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs in criminology, which is an academic discipline in the social sciences as well as a title used to refer to some professional police training. (At the graduate level criminology refers to the research field.) It includes:

Mas 45.0401: Criminology

Doc 45.0401: *Criminology*

78915. Fire-Protection Programmes. This program group code should be inserted at level 7 (it appears only at level 5) to report data accurately and consistently for U.S. graduate programs in fire protection services. It includes:

Mas 43.0201: *Fire Protection and Safety Technology/Technician*
43.0299: *Fire Protection, Other*

Doc No data currently reported.

78919. Other Civil Security and Military Programmes. There are no U.S. data known to correspond to this program group code which are currently being reported.

78932. Social Welfare Programmes. This program group code as defined in ISCED is the place to report graduate data on a variety of U.S. social and community assistance programs, including social work. As defined, it corresponds to:

Mas 19.0703: Family and Marriage Counseling
 19.0705: Gerontological Services
 44.0201: Community Organization, Resources and Services
 44.0701: Social Work

Doc 19.0703: Family and Marriage Counseling
 44.0201: *Community Organization, Resources and Services*
 44.0701: Social Work

78942. Programmes in Vocational Counseling. There are no U.S. program data corresponding to this program group code, at this level, that can be disaggregated from codes reported elsewhere (see codes 75099 and 78932).

78952. Programmes in Environmental Studies. This program group code as defined in ISCED corresponds to graduate data reported for U.S. programs in environmental science and related natural resources conservation fields. It includes:

Mas 03.0101: Natural Resources Conservation, General
 03.0102: Environmental Science/Studies
 03.0201: *Natural Resources Management and Policy*
 03.0203: *Natural Resources Law Enforcement and Protective Services*
 03.9999: Conservation and Renewable Natural Resources, Other

Doc 03.0101: Natural Resources Conservation, General
 03.0102: *Environmental Science/Studies*
 03.9999: *Conservation and Renewable Natural Resources, Other*

78962. Programmes in Physical Education. This program group code is the appropriate place to report graduate data on all U.S. physical education and related recreation programs that do not have to do with teacher education. As defined, it corresponds to:

Mas 31.0101: Parks, Recreation and Leisure Studies
 31.0301: Parks, Recreation and Leisure Facilities Management
 31.0501: Health and Physical Education, General
 31.0503: Athletic Training and Sports Medicine
 31.0504: Sport and Fitness Administration/Management
 31.0505: Exercise Sciences/Physiology and Movement Studies
 31.0506: *Socio-Psychological Sports Studies*

31.0599: Health and Physical Education/Fitness, Other
31.9999: Parks, Recreation, Leisure and Fitness Studies, Other

Doc 31.0101: Parks, Recreation and Leisure Studies
31.0301: Parks, Recreation and Leisure Facilities Management
31.0501: Health and Physical Education, General
31.0505: Exercise Sciences/Physiology and Movement Studies
31.9999: Parks, Recreation, Leisure and Fitness Studies, Other

78999. Other Programmes of Education, n.e.c. This program group code as defined in ISCED corresponds to graduate data reported for the following U.S. programs which are classified nowhere else, including:

Mas 30.1101: Gerontology
30.1501: Science, Technology, and Society
30.9999: Multi/Interdisciplinary Studies, Other

Doc 30.1501: Science, Technology, and Society
30.9999: Multi/Interdisciplinary Studies, Other

CHAPTER 10

Crosswalking Data at Level 9: Education Not Definable by Level

ISCED level 9 corresponds to all U.S. educational program activity that is offered without academic credit for purposes of self-improvement, enrichment, job-related training, or other incentives. Such programs can be offered at any educational level and by a tremendous variety of providers. For these and other reasons it is difficult to track this field of educational activity, and U.S. data are not regularly collected. Certain CIP codes are assigned that correspond to ISCED level 9, and they are classified here. These CIP codes are used to report noncredit and leisure program data when special surveys collect those data.

901. General Programmes

This broad field code is appropriate for reporting data on basic skills programs that possess no specific application.

90100. General Programmes. Report any data that might be collected using CIP code 32.0101: *Basic Skills, General*.

914. Programmes in Teacher Training Including Training for Extension and Other Fields of Non-Formal Education

In the United States, teachers who work as formally licensed instructional providers are required to have completed one of the education programs listed under ISCED levels 5-7 or one of the other listed programs, if they are alternatively certified. Persons who may provide instruction on an informal basis are not uniformly regulated in the United States, nor are there formal programs to train such informal instructors.

91416. Education Science and Teacher Training for Work in Adult Education. No regularly collected U.S. data correspond to this program group code (see broad fields 514, 614, and 714 for reporting program data in adult education).

91499. Other Programmes in Teacher Training. No regularly collected U.S. data correspond to this program group code (see broad fields 514, 614 and 714 for reporting teacher education program data).

918. Fine and Applied Arts Programmes

Any data reported under this broad field will be for informal, noncredit programs in art only.

91810. Programmes in Visual and Plastic Arts. Report any data that might be collected using CIP code 36.0110: *Art*.

91812. Programmes in Handicrafts. Report any data that might be collected using CIP code 36.0102: *Handicrafts and Model-Making*.

91822. Programmes in Music. Report any data that might be collected using CIP code 36.0115: *Music*.

91832. Programmes in Drama. Report any data that might be collected using CIP code 36.0117: *Theatre*.

91899. Other Fine and Applied Arts Programmes. The only U.S. program code which corresponds to this program group code is CIP code 36.0114: *Dancing*.

922. Humanities Programmes

Any data reported here will only be for informal or noncredit programs in subjects pertaining to the humanities fields.

92215. Programmes in a "Foreign" or Second Language and Its Literature. No regularly collected U.S. data correspond to this program group code.

92221. Programmes in "Dead" Languages and Their Literature. No regularly collected U.S. data correspond to this program group code.

92251. Programmes in History. No regularly collected U.S. data correspond to this program group code.

92261. Programmes in Archaeology. No regularly collected U.S. data correspond to this program group code.

92299. Other Humanities Programmes. The only U.S. program codes which correspond to this program group code are CIP codes 36.0116: *Reading* and 36.0118: *Writing*.

926. Religion and Theology Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to religion, including personal exploration.

92600. Religion and Theology Programmes. No regularly collected U.S. data correspond to this program group code.

930. Social and Behavioural Science Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to the social science fields.

93012. Programmes in Economics. No regularly collected U.S. data correspond to this program group code.

93022. Programmes in Political Science. Report any data that might be collected using CIP code 33.0101: *Citizenship Activities, General*.

93032. Programmes in Sociology. Report any data that might be collected using CIP code 33.0103: *Community Awareness*.

93052. Programmes in Psychology. Report any data that might be collected using the following CIP codes:

- 37.0101: *Self-Awareness and Personal Assessment*
- 37.0102: *Stress Management and Coping Skills*
- 37.0103: *Personal Decision-Making Skills*
- 37.0104: *Self-Esteem and Values Clarification*
- 37.0199: *Personal Awareness and Self-Improvement, Other*

93062. Programmes in Geography. Report any data that might be collected using CIP code 36.0109: *Travel and Exploration*.

93099. Other Programmes in Social and Behavioural Science. The only U.S. program code which corresponds to this program group code is CIP code 33.0199: *Citizenship Activities, Other.*

934. Commercial, Clerical, Business and Public Administration Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to business skills.

93404. Shorthand-Typing (Secretarial) Programmes. No regularly collected U.S. data correspond to this program group code.

93408. Clerical Programmes. No regularly collected U.S. data correspond to this program group code.

93438. Programmes in Labour Studies Including Personnel Administration. No regularly collected U.S. data correspond to this program group code.

93439. Other Commercial, Clerical, Business and Public Administration Programmes. Report any data that might be collected using the following CIP codes:

- 32.0105: *Job Seeking/Changing Skills*
- 32.0107: *Career Exploration/Awareness Skills*
- 33.0104: *Community Involvement*
- 35.0103: *Business and Social Skills*

938. Programmes in Law

Any data reported here will be only for informal or noncredit programs in subjects pertaining to general legal knowledge and skills.

93800. Programmes in Law. Report any data that might be collected using CIP code 33.0102: *American Citizenship Education.*

942. Natural Science Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to the sciences.

94202. Biological Science Programmes. No regularly collected U.S. data correspond to this program group code.

94222. Geological Science Programmes. No regularly collected U.S. data correspond to this program group code.

94232. Physics Programmes. No regularly collected U.S. data correspond to this program group code.

94242. Astronomy Programmes. No regularly collected U.S. data correspond to this program group code.

94299. Other Natural Science Programmes. Report any data that might be collected using CIP code 36.0106: *Nature Appreciation*.

946. Programmes in Computer Science

Any data reported here will be only for informal or noncredit programs in subjects pertaining to basic computer awareness and skills.

94600. Programmes in Computer Science. Report any data that might be collected using CIP code 32.0104: *Computational Skills* and 36.0113: *Computer Games and Programming Skills*.

950. Health-Related Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to basic health awareness and skills.

95018. Nursing and Other Medical Auxiliary Programmes. No regularly collected U.S. data correspond to this program group code (refer to broad fields 550, 650 and 750 for

reporting nursing program data).

95099. Other Health-Related Programmes. Report any data that might be collected using the following CIP codes:

- 34.0102: *Birth and Parenting Knowledge and Skills*
- 34.0103: *Personal Health Improvement and Maintenance*
- 34.0104: *Addiction Prevention and Treatment*
- 34.0199: *Health-Related Knowledge and Skills, Other*

952. Trade, Craft and Industrial Programmes, n.e.c.

Any data reported here will be only for informal or noncredit programs in subjects pertaining to home improvement and related do-it-yourself skills.

95200. Trade, Craft and Industrial Programmes, n.e.c. Report any data that might be collected using CIP code 36.0105: *Home Maintenance and Improvement*.

954. Engineering Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to technology.

95400. Engineering Programmes. No regularly collected U.S. data correspond to this program group code (refer to broad fields 554, 654 and 754 for reporting data on formal programs in engineering and engineering technology).

958. Architectural and Town Planning Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to architectural appreciation (refer to broad fields 558, 658 and 758 for reporting data on formal programs in these fields).

95810. Architectural Programmes. No regularly collected U.S. data correspond to this program group code.

95822. Town or Community Planning Programmes. No regularly collected U.S. data correspond to this program group code.

962. Agricultural, Forestry and Fishery Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to activities related to the formal agriculture programs listed under broad fields 562, 662 and 762.

96202. Programmes in Agriculture. Report any data that might be collected using CIP code 36.0107: *Pet Ownership and Care*.

96262. Forestry and Forest Products Technology Programmes. No regularly collected U.S. data correspond to this program group code.

96272. Fishery Programmes. No regularly collected U.S. data correspond to this program group code.

966. Home Economics (Domestic Science) Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to activities related to the formal home economics programs listed under broad fields 566, 666 and 766.

96604. Programmes with Emphasis on Dressmaking and Needlecrafts. Report any data that might be collected using CIP code 20.0103: *Clothing and Textiles*.

96612. Programmes with Emphasis on Household Food Management and Nutrition. Report any data that might be collected using CIP codes 20.0104: *Consumer Education* and 20.0108: *Food and Nutrition*.

96622. Programmes with Emphasis on Child Care. Report any data that might be collected using CIP codes 20.0102: *Child Development, Care and Guidance* and 20.0107: *Family Living and Parenthood*.

96699. Other Home Economics Programmes. Report any data that might be collected using the following CIP codes:

- 20.0101: *Comprehensive Consumer and Homemaking Education*
- 20.0105: *Exploratory Homemaking*
- 20.0106: *Family/Individual Health*
- 20.0109: *Home Management*
- 20.0110: *Housing, Home Furnishings and Equipment*
- 20.0199: *Consumer and Homemaking Education, Other*
- 36.0112: *Cooking and Other Domestic Skills*

970. Transport and Communications Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to activities related to the transportation programs listed under broad fields 570, 670 and 770.

97000. Transport and Communications Programmes. No regularly collected U.S. data correspond to this program group code.

978. Service Trades Programmes

Any data reported here will be only for informal or noncredit programs in subjects pertaining to activities related to the service industries programs listed under broad fields 578, 678 and 778.

97800. Service Trades Programmes. No regularly collected U.S. data correspond to this program group code.

984. Programmes in Mass Communication and Documentation

Any data reported here will be only for informal or noncredit programs in subjects pertaining to the communications programs listed under broad fields 584, 684 and 784.

98400. Programmes in Mass Communication and Documentation. No regularly collected U.S. data correspond to this program group code.

989. Other Education Not Definable by Level

Any data reported here will be only for informal or noncredit programs in subjects pertaining to the program topics listed under broad fields 589, 689 and 789.

98962. Programmes in Physical Education. Report any data that might be collected using CIP code 36.0108: *Sports and Exercise*.

98999. Other Education Not Definable by Level, n.e.c. Report any data that might be collected using the following CIP codes:

- 32.0199: *Basic Skills, Other*
- 35.0101: *Interpersonal and Social Skills, General*
- 35.0102: *Interpersonal Relationships Skills*
- 35.0199: *Interpersonal and Social Skills, Other*
- 36.0101: *Leisure and Recreational Activities, General*
- 36.0103: *Board, Card and Role-Playing Games*
- 36.0111: *Collecting*
- 36.0199: *Leisure and Recreational Activities, Other*

APPENDIX

Master Crosswalk of U.S. and ISCED Codes

USING THE MASTER CROSSWALK

The master crosswalk matrix is subdivided into eight sections corresponding to each ISCED Level. Each section is organized by the ISCED broad codes contained within it, with the program group codes listed under each broad code in numerical order. The titles of these ISCED codes are not given in the appendix since they have been presented in chapters 3-10 and are known to users familiar with the international system. To the right of each ISCED code, in numerical order, are presented the U.S. program codes corresponding to it. These will be either CCD or CIP codes, depending on the educational level. At the top of each section are listed the CCD or IPEDS level codes corresponding to the ISCED Level indicated.

Users of the appendix are reminded that it contains all potential crosswalkable program codes at all levels, not just those for which data are currently being reported. This approach is required to enable data coders to possess a map of every possible data placement. If U.S. institutions indicate that a specific program is offered at a given level, a position for any resulting completion data must be assigned. (If no U.S. institutions report offering a program at a particular ISCED level, it is not listed in the appendix at that level.) It would be methodologically improper to introduce bias or otherwise limit the crosswalk based on assumptions about data significance which might vary over time or be affected by other valid circumstances. Users interested in discovering which ISCED or U.S. programs are actually generating consistently high numbers of completions at different levels are invited to consult the discussions in chapters 3-10.

CIP Codes in the Appendix Followed by an Asterisk (*). CIP codes listed in the crosswalk appendix which have an asterisk (*) located behind them are codes for which NCES is currently collecting significant data. (Refer to the definition of significant data in chapter 2.)

Use of the Symbol "N/A." Wherever this symbol appears in the crosswalk matrix, it means "not applicable," which means that no U.S. data exist which correspond to the ISCED code in question.

ISCED Codes Preceded by a Carrot (>). ISCED codes listed in the crosswalk appendix which are preceded by a carrot (>) are codes which have had to be inserted using ISCED rules in order to report U.S. data corresponding to that code at the level in question. Thus, an ISCED code (less the level number) may have a carrot at some levels but not at others. (Refer to Chapters 3-10 for discussions of inserted ISCED codes.)

0. Education Preceeding the First Level

ISCED

CCD

001

D01 (PK) *Pre-Kindergarten*

D02 (K) *Kindergarten*

1. Education at the First Level

ISCED

CCD

101

10100

D03 (1) *Grade 1*

D04 (2) *Grade 2*

D05 (3) *Grade 3*

D06 (4) *Grade 4*

D07 (5) *Grade 5*

D08 (6) *Grade 6*

D15 (U) *Ungraded*

108

(CIP)

10811

32.0108

Reading, Literacy, and Communications Skills

126

N/A

12600

N/A

134

N/A

13401

N/A

13411

N/A

150

N/A

15000

N/A

152

N/A

15201

N/A

15212

N/A

15216

N/A

15222

N/A

15232	N/A
15242	N/A
15262	N/A
15272	N/A
15274	N/A
15276	N/A
15299	N/A

162	N/A
-----	-----

16202	N/A
16262	N/A
16272	N/A

166	N/A
-----	-----

16601	N/A
16604	N/A
16608	N/A
16622	N/A
16699	N/A

178	N/A
-----	-----

17812	N/A
17822	N/A
17842	N/A
17899	N/A

189	N/A
-----	-----

18900	N/A
-------	-----

2. Education at the Second Level, First Stage

ISCED	CCD
201	
20100	D09 (7) <i>Grade 7</i> D10 (8) <i>Grade 8</i> D11 (9) <i>Grade 9</i>
214	N/A
21401	N/A
21408	N/A
226	N/A
22600	N/A
234	N/A
23401	N/A
23404	N/A
23439	N/A
250	N/A
25002	N/A
25012	N/A
25015	N/A
25099	N/A
252	N/A
25201	N/A
25212	N/A
25216	N/A
25222	N/A
25232	N/A

25242	N/A
25262	N/A
25264	N/A
25266	N/A
25272	N/A
25274	N/A
25276	N/A
25278	N/A
25282	N/A
25299	N/A

254	N/A
-----	-----

25402	N/A
25406	N/A
25422	N/A
25426	N/A
25436	N/A
25452	N/A
25499	N/A

262	N/A
-----	-----

26202	N/A
26203	N/A
26206	N/A
26208	N/A
26249	N/A
26262	N/A
26272	N/A

266	N/A
-----	-----

26601	N/A
26612	N/A
26622	N/A
26699	N/A

270	N/A
-----	-----

27004	N/A
-------	-----

27006	N/A
27008	N/A
27026	N/A
27029	N/A

278	N/A
-----	-----

27812	N/A
27822	N/A
27862	N/A
27872	N/A
27899	N/A

289	N/A
-----	-----

28900	N/A
-------	-----

3. Education at the Second Level, Second Stage

ISCED

CCD

301

30100

D12 (10) *Grade 10*

D13 (11) *Grade 11*

D14 (12) *Grade 12*

E01 (RD) *Regular Diploma*

E02 (OD) *Other Diploma*

E03 (HE) *High School
Equivalence
Recipients*

301

(CIP)

30100

53.0101

Regular (General) High School Diploma Program

53.0102

College Preparatory High School Diploma Program

53.0103

Vocational High School Diploma Program

53.0104

Honors/Regents High School Diploma Program

53.0199

High School/Secondary Diplomas, Other

53.0201

High School Equivalence Certificate

30104

N/A

30108

N/A

30199

E04 (OC) *Other High
School
Completers*

30199

53.0202

High School Certificate of Competence

53.0203

Certificate of IEP Completion

53.0299

High School/Secondary Certificates, Other

314

N/A

31401

N/A

31408

N/A

31412	N/A
31416	N/A
31422	N/A
31499	N/A
318	N/A
31804	N/A
31812	N/A
31822	N/A
31899	N/A
326	N/A
32600	N/A
334	N/A
33401	N/A
33404	N/A
33408	N/A
33422	N/A
33432	N/A
33439	N/A
350	N/A
35002	N/A
35012	N/A
35015	N/A
35099	N/A
352	N/A
35201	N/A
35212	N/A
35216	N/A
35222	N/A
35232	N/A
35242	N/A

35262	N/A
35264	N/A
35266	N/A
35272	N/A
35274	N/A
35276	N/A
35278	N/A
35282	N/A
35299	N/A

354	N/A
-----	-----

35402	N/A
35406	N/A
35422	N/A
35426	N/A
35436	N/A
35452	N/A
35499	N/A

362	N/A
-----	-----

36202	N/A
36203	N/A
36206	N/A
36208	N/A
36249	N/A
36262	N/A
36272	N/A

366	N/A
-----	-----

36601	N/A
36612	N/A
36622	N/A
36699	N/A

370	N/A
-----	-----

37004	N/A
37006	N/A

37008	N/A
37026	N/A
37029	N/A

378	N/A
-----	-----

37812	N/A
37822	N/A
37862	N/A
37872	N/A
37899	N/A

389	N/A
-----	-----

38900	N/A
-------	-----

**5. Education at the Third Level, First Stage of the
Type that Leads to an Award Not Equivalent
to a First University Degree**

ISCED

IPEDS

5

LT1 *Postsecondary Award, Certificate, or Diploma of Less Than One Academic Year*

LT2 *Postsecondary Award, Certificate, or Diploma of At Least One but Less Than Two Academic Years*

Asc *Associate's Degree*

LT4 *Postsecondary Award, Certificate, or Diploma of At Least Two but Less Than Four Academic Years*

ISCED

CIP

> 501

> 50100

24.0101 *Liberal Arts and Sciences/Liberal Studies**

24.0102 *General Studies**

24.0199 *Liberal Arts and Sciences/General Studies and Humanities, Other**

514

51401

13.0101 *Education, General**

13.1202 *Elementary Teacher Education**

13.1203 *Junior High/Intermediate/Middle School Teacher Education*

13.1205 *Secondary Teacher Education**

13.1206 *Teacher Education, Multiple Levels*

13.1299 *General Teacher Education, Other**

13.1501 *Teacher Assistant/Aide**

51404

13.1302 *Art Teacher Education**

13.1305 *English Teacher Education**

13.1306 *Foreign Languages Teacher Education*

13.1307 *Health Teacher Education**

13.1311 *Mathematics Teacher Education**

13.1312 *Music Teacher Education**

13.1314 *Physical Education Teaching and Coaching**

13.1315 *Reading Teacher Education*

	13.1316	<i>Science Teacher Education, General*</i>
	13.1317	<i>Social Science Teacher Education*</i>
	13.1318	<i>Social Studies Teacher Education*</i>
	13.1321	<i>Computer Teacher Education</i>
	13.1322	<i>Biology Teacher Education</i>
	13.1323	<i>Chemistry Teacher Education</i>
	13.1324	<i>Drama and Dance Teacher Education</i>
	13.1325	<i>French Language Teacher Education</i>
	13.1326	<i>German Language Teacher Education</i>
	13.1328	<i>History Teacher Education</i>
	13.1329	<i>Physics Teacher Education</i>
	13.1330	<i>Spanish Language Teacher Education</i>
	13.1331	<i>Speech Teacher Education</i>
	13.1401	<i>Teaching English as a Second Language/Foreign Language*</i>
51408	13.1301	<i>Agricultural Teacher Education*</i>
	13.1303	<i>Business Teacher Education*</i>
	13.1304	<i>Driver and Safety Teacher Education</i>
	13.1308	<i>Home Economics Teacher Education*</i>
	13.1309	<i>Technology/Industrial Arts Teacher Education*</i>
	13.1310	<i>Marketing Operations/Marketing and Distribution Teacher Education</i>
	13.1319	<i>Technical Teacher Education*</i>
	13.1320	<i>Trade and Industrial Teacher Education</i>
	13.1327	<i>Health Occupations Teacher Education</i>
51412	13.1204	<i>Pre-Elementary/Early Childhood/Kindergarten Teacher Education*</i>
51416	13.1201	<i>Adult and Continuing Teacher Education*</i>
51422	13.1001	<i>Special Education, General*</i>
	13.1003	<i>Education of the Deaf and Hearing Impaired*</i>
	13.1005	<i>Education of the Emotionally Handicapped</i>
	13.1006	<i>Education of the Mentally Handicapped</i>
	13.1007	<i>Education of the Multiple Handicapped</i>
	13.1008	<i>Education of the Physically Handicapped</i>
	13.1009	<i>Education of the Blind and Visually Handicapped</i>
	13.1011	<i>Education of the Specific Learning Disabled</i>
	13.1012	<i>Education of the Speech Impaired</i>
	13.1013	<i>Education of the Autistic</i>
	13.1099	<i>Special Education, Other*</i>
51432	N/A	

> 51472	13.0301	<i>Curriculum and Instruction</i>
	13.0601	<i>Educational Evaluation and Research</i>
	13.0603	<i>Educational Statistics and Research Methods</i>
	13.0604	<i>Educational Assessment, Testing, and Measurement</i>
	13.0699	<i>Educational Evaluation, Research, and Statistics, Other</i>
	13.0701	<i>International and Comparative Education</i>
	13.0802	<i>Educational Psychology</i>
	13.0901	<i>Social and Philosophical Foundations of Education</i>
51499	13.0201	<i>Bilingual/Bicultural Education</i>
	13.0501	<i>Educational/Instructional Media Design</i>
	13.1004	<i>Education of the Gifted and Talented</i>
	13.1101	<i>Counselor Education/Counseling and Guidance Services</i>
	13.1102	<i>College/Postsecondary Student Counseling and Personnel Services</i>
	13.1399	<i>Teacher Education, Specific Academic and Vocational Programs, Other*</i>
	13.9999	<i>Education, Other*</i>
518		
51801	50.0401	<i>Design and Visual Communications*</i>
	50.0701	<i>Art, General*</i>
	50.0702	<i>Fine/Studio Arts</i>
> 51802	50.0703	<i>Art History, Criticism, and Conservation*</i>
51804	50.0705	<i>Drawing</i>
	50.0708	<i>Painting*</i>
	50.0710	<i>Printmaking</i>
51808	50.0709	<i>Sculpture</i>
51812	50.0201	<i>Crafts, Folk Art, and Artisanry</i>
	50.0711	<i>Ceramic Arts and Ceramics</i>
	50.0712	<i>Fiber, Textile, and Weaving Arts</i>
	50.0713	<i>Metal and Jewelry Arts</i>
51822	50.0901	<i>Music, General*</i>
	50.0902	<i>Music History and Literature</i>
	50.0903	<i>Music — General Performance*</i>
	50.0904	<i>Music Theory and Composition</i>
	50.0905	<i>Musicology and Ethnomusicology</i>
	50.0906	<i>Music Conducting</i>

	50.0907	<i>Music — Piano and Organ Performance</i>
	50.0908	<i>Music — Voice and Choral/Opera Performance</i>
	50.0909	<i>Music Business Management and Merchandising</i>
	50.0999	<i>Music, Other*</i>
51832	50.0501	<i>Drama/Theatre Arts, General*</i>
	50.0502	<i>Technical Theatre/Theatre Design and Stagecraft*</i>
	50.0503	<i>Acting and Directing</i>
	50.0504	<i>Playwriting and Screenwriting</i>
	50.0505	<i>Drama/Theatre Literature, History, and Criticism</i>
	50.0599	<i>Drama/Theatre Arts and Stagecraft, Other</i>
51842	10.0103	<i>Photographic Technology/Technician*</i>
	50.0406	<i>Commercial Photography*</i>
	50.0601	<i>Film/Cinema Studies*</i>
	50.0602	<i>Film-Video Making/Cinematography and Production*</i>
	50.0605	<i>Photography*</i>
	50.0699	<i>Film/Video and Photographic Arts, Other*</i>
51852	50.0408	<i>Interior Design*</i>
51899	50.0101	<i>Visual and Performing Arts*</i>
	50.0301	<i>Dance*</i>
	50.0402	<i>Graphic Design, Commercial Art, and Illustration*</i>
	50.0404	<i>Industrial Design*</i>
	50.0407	<i>Fashion Design and Illustration*</i>
	50.0499	<i>Design and Applied Arts, Other*</i>
	50.0704	<i>Arts Management</i>
	50.0706	<i>Intermedia</i>
	50.0799	<i>Fine Arts and Art Studies, Other*</i>
	50.9999	<i>Visual and Performing Arts, Other*</i>
522		
> 52201	24.0103	<i>Humanities/Humanistic Studies</i>
52202	16.0103	<i>Foreign Language Interpretation and Translation</i>
52208	16.0101	<i>Foreign Languages and Literatures, General*</i>
	16.9999	<i>Foreign Languages and Literatures, Other*</i>
52211	23.0101	<i>English Language and Literature, General*</i>
	23.0401	<i>English Composition</i>
	23.0501	<i>English Creative Writing</i>

	23.0701	<i>American Literature (United States)</i>
	23.0801	<i>English Literature (British and Commonwealth)</i>
	23.1001	<i>Speech and Rhetorical Studies*</i>
	23.1101	<i>English Technical and Business Writing*</i>
	23.9999	<i>English Language and Literature/Letters, Other*</i>
> 52215	16.0301	<i>Chinese Language and Literature</i>
	16.0302	<i>Japanese Language and Literature</i>
	16.0399	<i>East and Southeast Asian Languages and Literatures, Other</i>
	16.0402	<i>Russian Language and Literature</i>
	16.0403	<i>Slavic Languages and Literatures (Other Than Russian)</i>
	16.0499	<i>East European Languages and Literatures, Other</i>
	16.0501	<i>German Language and Literature</i>
	16.0502	<i>Scandinavian Languages and Literatures</i>
	16.0599	<i>Germanic Languages and Literatures, Other</i>
	16.0601	<i>Greek Language and Literature (Modern)</i>
	16.0703	<i>South Asian Languages and Literatures</i>
	16.0901	<i>French Language and Literature*</i>
	16.0902	<i>Italian Language and Literature</i>
	16.0904	<i>Portuguese Language and Literature</i>
	16.0905	<i>Spanish Language and Literature*</i>
	16.0999	<i>Romance Languages and Literatures, Other</i>
	16.1101	<i>Arabic Language and Literature</i>
	16.1102	<i>Hebrew Language and Literature</i>
	16.1199	<i>Middle Eastern Languages and Literatures, Other</i>
> 52221	16.1201	<i>Classics and Classical Languages and Literatures</i>
	16.1202	<i>Greek Language and Literature (Ancient and Medieval)</i>
	16.1203	<i>Latin Language and Literature (Ancient and Medieval)</i>
	16.1299	<i>Classical and Ancient Near Eastern Languages and Literatures, Other</i>
> 52241	23.0301	<i>Comparative Literature</i>
> 52251	45.0801	<i>History, General*</i>
	45.0802	<i>American (United States) History</i>
	45.0803	<i>European History</i>
	45.0804	<i>History and Philosophy of Science and Technology</i>
	45.0805	<i>Public/Applied History and Archival Administration</i>
	45.0899	<i>History, Other</i>
> 52261	45.0301	<i>Archaeology</i>
> 52271	38.0101	<i>Philosophy</i>

52299	05.0204	<i>Islamic Studies</i>
	05.0205	<i>Jewish/Judaic Studies*</i>
	30.1301	<i>Medieval and Renaissance Studies</i>
526		
52600	38.0201	<i>Religion/Religious Studies*</i>
	38.9999	<i>Philosophy and Religion*</i>
	39.0101	<i>Biblical and Other Theological Languages and Literatures</i>
	39.0201	<i>Bible/Biblical Studies*</i>
	39.0301	<i>Missions/Missionary Studies and Missiology*</i>
	39.0401	<i>Religious Education*</i>
	39.0501	<i>Religious/Sacred Music*</i>
	39.0601	<i>Theology/Theological Studies*</i>
	39.0602	<i>Divinity/Ministry (BD, MDiv)</i>
	39.0603	<i>Rabbinical and Talmudic Studies (MHL, Rav)</i>
	39.0604	<i>Pre-Theological/Pre-Ministerial Studies</i>
	39.0699	<i>Theological and Ministerial Studies, Other*</i>
	39.0701	<i>Pastoral Counseling and Specialized Ministries</i>
	39.9999	<i>Theological Studies and Religious Vocations, Other*</i>
530		
> 53001	45.0101	<i>Social Sciences, General*</i>
53012	45.0601	<i>Economics, General*</i>
	45.0602	<i>Applied and Resource Economics</i>
	45.0603	<i>Econometrics and Quantitative Economics</i>
	45.0604	<i>Development Economics and International Development</i>
	45.0605	<i>International Economics</i>
	45.0699	<i>Economics, Other</i>
53022	45.0901	<i>International Relations and Affairs</i>
	45.1001	<i>Political Science, General*</i>
	45.1002	<i>American Government and Politics</i>
	45.1099	<i>Political Science and Government, Other</i>
53032	45.1101	<i>Sociology*</i>
> 53042	45.0201	<i>Anthropology*</i>

53052	42.0101	<i>Psychology, General*</i>
	42.0201	<i>Clinical Psychology</i>
	42.0301	<i>Cognitive Psychology and Psycholinguistics</i>
	42.0401	<i>Community Psychology*</i>
	42.0601	<i>Counseling Psychology</i>
	42.0701	<i>Developmental and Child Psychology</i>
	42.0801	<i>Experimental Psychology</i>
	42.0901	<i>Industrial and Organizational Psychology</i>
	42.1101	<i>Physiological Psychology/Psychobiology</i>
	42.1601	<i>Social Psychology</i>
	42.1701	<i>School Psychology</i>
	42.9999	<i>Psychology, Other*</i>
> 53062	45.0701	<i>Geography*</i>
	45.0702	<i>Cartography</i>
> 53072	05.0101	<i>African Studies</i>
	05.0102	<i>American Studies/Civilization</i>
	05.0103	<i>Asian Studies</i>
	05.0104	<i>East Asian Studies</i>
	05.0105	<i>Eastern European Area Studies</i>
	05.0106	<i>European Studies</i>
	05.0107	<i>Latin American Studies</i>
	05.0108	<i>Middle Eastern Studies</i>
	05.0109	<i>Pacific Area Studies</i>
	05.0110	<i>Russian and Slavic Area Studies</i>
	05.0111	<i>Scandinavian Area Studies</i>
	05.0112	<i>South Asian Studies</i>
	05.0113	<i>Southeast Asian Studies</i>
	05.0114	<i>Western European Studies</i>
	05.0115	<i>Canadian Studies</i>
	05.0199	<i>Area Studies, Other</i>
53099	05.0201	<i>Afro-American (Black) Studies</i>
	05.0202	<i>American Indian/Native American Studies</i>
	05.0203	<i>Hispanic-American Studies</i>
	05.0206	<i>Asian-American Studies</i>
	05.0207	<i>Women's Studies</i>
	05.0299	<i>Ethnic and Cultural Studies, Other</i>
	05.9999	<i>Area, Ethnic, and Cultural Studies, Other</i>
	30.0501	<i>Peace and Conflict Studies</i>
	45.0501	<i>Demography/Population Studies</i>
	45.1201	<i>Urban Affairs/Studies*</i>
	45.9999	<i>Social Sciences and History, Other*</i>

534		
53401	52.0101	<i>Business, General*</i>
	52.0201	<i>Business Administration and Management, General*</i>
53404	52.0401	<i>Administrative Assistant/Secretarial Science, General*</i>
	52.0402	<i>Executive Assistant/Secretary*</i>
	52.0403	<i>Legal Administrative Assistant/Secretary*</i>
	52.0404	<i>Medical Administrative Assistant/Secretary*</i>
	52.0405	<i>Court Reporter*</i>
	52.0406	<i>Receptionist*</i>
	52.0499	<i>Administrative and Secretarial Services, Other*</i>
> 53408	52.0408	<i>General Office/Clerical and Typing Services*</i>
53422	N/A	
53426	52.0407	<i>Information Processing/Data Entry Technician*</i>
	52.1201	<i>Management Information Systems and Business Data Processing, General*</i>
	52.1202	<i>Business Computer Programming/Programmer*</i>
	52.1203	<i>Business Systems Analysis and Design*</i>
	52.1204	<i>Business Systems Networking and Telecommunications</i>
	52.1205	<i>Business Computer Facilities Operator*</i>
	52.1299	<i>Business Information and Data Processing Services, Other*</i>
53432	52.0301	<i>Accounting*</i>
	52.0302	<i>Accounting Technician*</i>
	52.0399	<i>Accounting, Other*</i>
53434	08.0701	<i>Auctioneering*</i>
	08.0704	<i>General Buying Operations*</i>
	08.0705	<i>General Retailing Operations*</i>
	08.0706	<i>General Selling Skills and Sales Operations*</i>
	08.0708	<i>General Marketing Operations*</i>
	08.0709	<i>General Distribution Operations*</i>
	08.0799	<i>General Retailing and Wholesaling Operations and Skills, Other*</i>
	09.0201	<i>Advertising*</i>
	52.1401	<i>Business Marketing and Marketing Management*</i>
	52.1402	<i>Marketing Research</i>
	52.1403	<i>International Business Marketing</i>
	52.1499	<i>Marketing Management and Research, Other*</i>

53436	52.0801	<i>Finance, General*</i>
	52.0803	<i>Banking and Financial Support Services*</i>
	52.0804	<i>Financial Planning</i>
	52.0805	<i>Insurance and Risk Management*</i>
	52.0806	<i>International Finance</i>
	52.0807	<i>Investments and Securities</i>
	52.0899	<i>Financial Management and Services, Other</i>
	52.1601	<i>Taxation*</i>
53439	08.0301	<i>Entrepreneurship*</i>
	52.0202	<i>Purchasing, Procurement, and Contracts Management*</i>
	52.0203	<i>Logistics and Materials Management*</i>
	52.0204	<i>Office Supervision and Management*</i>
	52.0205	<i>Operations Management and Supervision*</i>
	52.0299	<i>Business Administration and Management, Other*</i>
	52.0501	<i>Business Communications</i>
	52.0601	<i>Business/Managerial Economics</i>
	52.0701	<i>Enterprise Management and Operation, General*</i>
	52.0702	<i>Franchise Operation</i>
	52.0799	<i>Enterprise Management and Operation, Other</i>
	52.0901	<i>Hospitality Administration/Management*</i>
	52.0902	<i>Hotel/Motel and Restaurant Management*</i>
	52.0903	<i>Travel and Tourism Management*</i>
	52.0999	<i>Hospitality Services Management, Other*</i>
	52.1001	<i>Human Resources Management*</i>
	52.1002	<i>Labor/Personnel Relations and Studies*</i>
	52.1003	<i>Organizational Behavior Studies</i>
	52.1099	<i>Human Resources Management, Other</i>
	52.1101	<i>International Business*</i>
	52.1301	<i>Management Science*</i>
	52.1302	<i>Business Statistics</i>
	52.1399	<i>Business Quantitative Methods and Management Science, Other*</i>
	52.1501	<i>Real Estate*</i>
	52.9999	<i>Business Management and Administrative Services, Other*</i>
53452	44.0401	<i>Public Administration*</i>
	44.0501	<i>Public Policy Analysis</i>
	44.9999	<i>Public Administration and Services, Other*</i>
	52.0808	<i>Public Finance</i>
53462	13.0401	<i>Education Administration and Supervision, General</i>
	13.0402	<i>Administration of Special Education</i>
	13.0403	<i>Adult and Continuing Education Administration</i>

	13.0404	<i>Educational Supervision</i>
	13.0405	<i>Elementary, Middle, and Secondary Education Administration</i>
	13.0406	<i>Higher Education Administration</i>
	13.0407	<i>Community and Junior College Education</i>
	13.0499	<i>Education Administration and Supervision, Other</i>
	51.0701	<i>Health System/Health Services Administration*</i>
	51.0702	<i>Hospital/Health Facilities Administration</i>
	51.0705	<i>Medical Office Management*</i>
	51.0706	<i>Medical Records Administration</i>
	51.0707	<i>Medical Records Technology/Technician*</i>
	51.0708	<i>Medical Transcription</i>
	51.0799	<i>Health and Medical Administrative Services, Other*</i>
	52.0206	<i>Non-Profit and Public Management</i>
538		
53800	N/A	
53801	22.0101	<i>Law (LLB, JD)</i>
	22.0102	<i>Pre-Law Studies*</i>
	22.0103	<i>Paralegal/Legal Assistant*</i>
53802	N/A	
53804	N/A	
53806	N/A	
53808	N/A	
53812	N/A	
53899	22.0104	<i>Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)</i>
	22.0199	<i>Law and Legal Studies, Other*</i>
542		
54202	26.0101	<i>Biology, General*</i>
	26.0202	<i>Biochemistry</i>
	26.0203	<i>Biophysics</i>
	26.0301	<i>Botany, General</i>

	26.0305	<i>Plant Pathology</i>
	26.0307	<i>Plant Physiology</i>
	26.0399	<i>Botany, Other</i>
	26.0401	<i>Cell Biology</i>
	26.0402	<i>Molecular Biology</i>
	26.0499	<i>Cell and Molecular Biology, Other</i>
	26.0501	<i>Microbiology/Bacteriology</i>
	26.0601	<i>Anatomy</i>
	26.0603	<i>Ecology</i>
	26.0607	<i>Marine/Aquatic Biology</i>
	26.0608	<i>Neuroscience</i>
	26.0609	<i>Nutritional Sciences</i>
	26.0610	<i>Parasitology</i>
	26.0611	<i>Radiation Biology/Radiobiology</i>
	26.0612	<i>Toxicology</i>
	26.0613	<i>Genetics, Plant and Animal</i>
	26.0614	<i>Biometrics</i>
	26.0615	<i>Biostatistics</i>
	26.0616	<i>Biotechnology Research</i>
	26.0617	<i>Evolutionary Biology</i>
	26.0618	<i>Biological Immunology</i>
	26.0619	<i>Virology</i>
	26.0699	<i>Miscellaneous Biological Specializations, Other*</i>
	26.0701	<i>Zoology, General</i>
	26.0702	<i>Entomology</i>
	26.0704	<i>Pathology, Human and Animal</i>
	26.0705	<i>Pharmacology, Human and Animal</i>
	26.0706	<i>Physiology, Human and Animal</i>
	26.0799	<i>Zoology, Other</i>
	26.9999	<i>Biological Sciences/Life Sciences, Other*</i>
54212	40.0501	<i>Chemistry, General*</i>
	40.0502	<i>Analytical Chemistry</i>
	40.0503	<i>Inorganic Chemistry</i>
	40.0504	<i>Organic Chemistry</i>
	40.0505	<i>Medicinal/Pharmaceutical Chemistry</i>
	40.0506	<i>Physical and Theoretical Chemistry</i>
	40.0507	<i>Polymer Chemistry</i>
	40.0599	<i>Chemistry, Other</i>
54222	40.0601	<i>Geology*</i>
	40.0602	<i>Geochemistry</i>
	40.0603	<i>Geophysics and Seismology</i>
	40.0604	<i>Paleontology</i>
	40.0699	<i>Geological and Related Sciences, Other</i>

54232	40.0801	<i>Physics, General*</i>
	40.0802	<i>Chemical and Atomic/Molecular Physics</i>
	40.0804	<i>Elementary Particle Physics</i>
	40.0805	<i>Plasma and High-Temperature Physics</i>
	40.0806	<i>Nuclear Physics</i>
	40.0807	<i>Optics</i>
	40.0808	<i>Solid State and Low-Temperature Physics</i>
	40.0809	<i>Acoustics</i>
	40.0810	<i>Theoretical and Mathematical Physics</i>
	40.0899	<i>Physics, Other</i>
> 54262	40.0702	<i>Oceanography*</i>
54299	30.0101	<i>Biological and Physical Sciences*</i>
	30.0601	<i>Systems Science and Theory</i>
	30.1001	<i>Biopsychology</i>
	40.0101	<i>Physical Sciences, General*</i>
	40.0701	<i>Metallurgy</i>
	40.0703	<i>Earth and Planetary Sciences</i>
	40.0799	<i>Miscellaneous Physical Sciences, Other</i>
	40.9999	<i>Physical Sciences, Other*</i>
546		
54601	27.0101	<i>Mathematics*</i>
54611	27.0501	<i>Mathematical Statistics</i>
54621	52.0802	<i>Actuarial Science</i>
54639	27.0301	<i>Applied Mathematics, General</i>
	27.0302	<i>Operations Research</i>
	27.0399	<i>Applied Mathematics, Other</i>
	27.9999	<i>Mathematics, Other*</i>
	30.0801	<i>Mathematics and Computer Science</i>
54641	11.0101	<i>Computer and Information Sciences, General*</i>
	11.0201	<i>Computer Programming*</i>
	11.0301	<i>Data Processing Technology/Technician*</i>
	11.0401	<i>Information Sciences and Systems*</i>
	11.0501	<i>Computer Systems Analysis</i>
	11.0701	<i>Computer Science*</i>
	11.9999	<i>Computer and Information Sciences, Other*</i>

550

55002	51.0301	<i>Community Health Liason*</i>
	51.2201	<i>Public Health, General</i>
	51.2202	<i>Environmental Health</i>
	51.2203	<i>Epidemiology</i>
	51.2204	<i>Health and Medical Biostatistics</i>
	51.2205	<i>Health Physics/Radiologic Health</i>
	51.2206	<i>Occupational Health and Industrial Hygiene</i>
	51.2207	<i>Public Health Education and Promotion</i>
	51.2299	<i>Public Health, Other</i>

> 55006

51.0807	<i>Physician Assistant*</i>
51.1102	<i>Pre-Medicine Studies*</i>
51.1201	<i>Medicine (MD)</i>
51.1401	<i>Medical Clinical Sciences (MS, PhD)</i>
51.1901	<i>Osteopathic Medicine (DO)</i>

55008

51.0803	<i>Occupational Therapy Assistant*</i>
51.0806	<i>Physical Therapy Assistant*</i>
51.2301	<i>Art Therapy</i>
51.2302	<i>Dance Therapy</i>
51.2303	<i>Hypnotherapy</i>
51.2304	<i>Movement Therapy</i>
51.2305	<i>Music Therapy</i>
51.2306	<i>Occupational Therapy*</i>
51.2307	<i>Orthotics/Prosthetics*</i>
51.2308	<i>Physical Therapy*</i>
51.2309	<i>Recreational Therapy*</i>
51.2310	<i>Vocational Rehabilitation Counseling*</i>
51.2399	<i>Rehabilitation/Therapeutic Services, Other*</i>

55012

51.1601	<i>Nursing (RN Training)*</i>
51.1602	<i>Nursing Administration</i>
51.1603	<i>Nursing, Adult Health</i>
51.1604	<i>Nursing Anesthetist</i>
51.1605	<i>Nursing, Family Practice</i>
51.1606	<i>Nursing, Maternal/Child Health</i>
51.1608	<i>Nursing Science</i>
51.1609	<i>Nursing, Pediatric</i>
51.1610	<i>Nursing, Psychiatric/Mental Health</i>
51.1611	<i>Nursing, Public Health</i>
51.1612	<i>Nursing, Surgical</i>
51.1613	<i>Practical Nurse (LPN Training)*</i>
51.1614	<i>Nurse Assistant/Aide*</i>

	51.1615	<i>Home Health Aide*</i>
	51.1699	<i>Nursing, Other*</i>
55015	51.1607	<i>Nursing Midwifery</i>
55017	51.0907	<i>Medical Radiologic Technology/Technician*</i>
55019	51.0901	<i>Cardiovascular Technology/Technician*</i>
	51.0902	<i>Electrocardiograph Technology/Technician*</i>
	51.0903	<i>Electroencephalograph Technology/Technician*</i>
	51.0904	<i>Emergency Medical Technology/Technician*</i>
	51.0905	<i>Nuclear Medical Technology/Technician*</i>
	51.0906	<i>Perfusion Technology/Technician</i>
	51.0908	<i>Respiratory Therapy Technology/Technician*</i>
	51.0909	<i>Surgical/Operating Room Technician*</i>
	51.0910	<i>Diagnostic Medical Sonography*</i>
	51.0999	<i>Health and Medical Diagnostic and Treatment Services, Other*</i>
> 55030	51.0802	<i>Medical Laboratory Assistant*</i>
	51.1001	<i>Blood Bank Technology/Technician*</i>
	51.1002	<i>Cytotechnologist*</i>
	51.1003	<i>Hematology Technology/Technician</i>
	51.1004	<i>Medical Laboratory Technician*</i>
	51.1005	<i>Medical Technology*</i>
	51.1006	<i>Optometric/Ophthalmic Laboratory Technician</i>
	51.1099	<i>Health and Medical Laboratory Technologists/Technicians, Other*</i>
55042	51.0401	<i>Dentistry (DDS, DMD)</i>
	51.0501	<i>Dental Clinical Sciences/Graduate Dentistry (MS, PhD)</i>
	51.1101	<i>Pre-Dentistry Studies*</i>
55046	51.0601	<i>Dental Assistant*</i>
	51.0602	<i>Dental Hygienist*</i>
	51.0603	<i>Dental Laboratory Technician*</i>
	51.0699	<i>Dental Services, Other</i>
55052	51.0805	<i>Pharmacy Technician/Assistant*</i>
	51.1103	<i>Pre-Pharmacy Studies*</i>
	51.2001	<i>Pharmacy (BPharm, PharmD)</i>
	51.2002	<i>Pharmacy Administration and Pharmaceuticals</i>
	51.2003	<i>Medical Pharmacology and Pharmaceutical Sciences</i>
	51.2099	<i>Pharmacy, Other*</i>

55062	51.0804	<i>Ophthalmic Medical Assistant</i>
	51.1701	<i>Optometry (OD)</i>
	51.1801	<i>Opticianry/Dispensing Optician*</i>
	51.1802	<i>Optical Technician/Assistant*</i>
	51.1803	<i>Ophthalmic Medical Technologist</i>
	51.1804	<i>Orthoptics</i>
	51.1899	<i>Ophthalmic/Optometric Services, Other*</i>
55099	51.0101	<i>Chiropractic (DC, DCM)</i>
	51.0201	<i>Communication Disorders, General</i>
	51.0202	<i>Audiology/Hearing Sciences</i>
	51.0203	<i>Speech-Language Pathology</i>
	51.0204	<i>Speech-Language Pathology and Audiology</i>
	51.0205	<i>Sign Language Interpreter*</i>
	51.0299	<i>Communication Disorders Sciences and Services, Other</i>
	51.0703	<i>Health Unit Coordinator/Ward Clerk*</i>
	51.0704	<i>Health Unit Manager/Ward Supervisor*</i>
	51.0801	<i>Medical Assistant*</i>
	51.0899	<i>Health and Medical Assistants, Other</i>
	51.1199	<i>Health and Medical Preparatory Programs, Other*</i>
	51.1301	<i>Medical Anatomy</i>
	51.1302	<i>Medical Biochemistry</i>
	51.1303	<i>Medical Biomathematics and Biometrics</i>
	51.1304	<i>Medical Physics/Biophysics</i>
	51.1305	<i>Medical Cell Biology</i>
	51.1306	<i>Medical Genetics</i>
	51.1307	<i>Medical Immunology</i>
	51.1308	<i>Medical Microbiology</i>
	51.1309	<i>Medical Molecular Biology</i>
	51.1310	<i>Medical Neurobiology</i>
	51.1311	<i>Medical Nutrition</i>
	51.1312	<i>Medical Pathology</i>
	51.1313	<i>Medical Physiology</i>
	51.1314	<i>Medical Toxicology</i>
	51.1399	<i>Basic Medical Sciences, Other</i>
	51.1501	<i>Alcohol/Drug Abuse Counseling*</i>
	51.1502	<i>Psychiatric/Mental Health Services Technician*</i>
	51.1503	<i>Clinical and Medical Social Work</i>
	51.1599	<i>Mental Health Services, Other</i>
	51.2101	<i>Podiatry (DPM, DP, PodD)</i>
	51.2601	<i>Health Aide*</i>
	51.2701	<i>Acupuncture and Oriental Medicine</i>
	51.2702	<i>Medical Dietician</i>
	51.2703	<i>Medical Illustrating</i>
	51.2704	<i>Naturopathic Medicine</i>

	51.2705	<i>Psychoanalysis</i>
	51.9999	<i>Health Professions and Related Sciences, Other*</i>
552		
55212	01.0401	<i>Agricultural and Food Products Processing Operations and Management*</i>
	12.0506	<i>Meatcutter*</i>
> 55216	46.0101	<i>Mason and Tile Setter*</i>
	46.0201	<i>Carpenter*</i>
	46.0301	<i>Electrical and Power Transmission Installer, General*</i>
	46.0302	<i>Electrician*</i>
	46.0303	<i>Lineworker*</i>
	46.0399	<i>Electrical and Power Transmission Installer, Other*</i>
	46.0401	<i>Building/Property Maintenance and Manager*</i>
	46.0403	<i>Construction/Building Inspector*</i>
	46.0408	<i>Painter and Wall Coverer*</i>
	46.0499	<i>Construction and Building Finishers and Managers, Other*</i>
	46.0501	<i>Plumber and Pipefitter*</i>
	46.9999	<i>Construction Trades, Other*</i>
55222	47.0101	<i>Electrical and Electronics Equipment Installer and Repairer, General*</i>
	47.0102	<i>Business Machine Repairer*</i>
	47.0103	<i>Communication Systems Installer and Repairer*</i>
	47.0104	<i>Computer Installer and Repairer*</i>
	47.0105	<i>Industrial Electronics Installer and Repairer*</i>
	47.0106	<i>Major Appliance Installer and Repairer*</i>
	47.0102	<i>Electrical and Electronics Equipment Installer and Repairer, Other*</i>
55232	48.0501	<i>Machinist/Machine Technologist*</i>
	48.0503	<i>Machine Shop Assistant*</i>
	48.0506	<i>Sheet Metal Worker*</i>
	48.0507	<i>Tool and Die Maker/Technologist*</i>
	48.0508	<i>Welder/Welding Technologist*</i>
	48.0599	<i>Precision Metal Workers, Other*</i>
55242	47.0302	<i>Heavy Equipment Maintenance and Repairer*</i>
	47.0303	<i>Industrial Machinery Maintenance and Repairer*</i>
	47.0399	<i>Industrial Equipment Maintenance and Repairers, Other*</i>

	47.0401	<i>Instrument Calibration and Repairer*</i>
	47.0402	<i>Gunsmith*</i>
	47.0403	<i>Locksmith and Safe Repairer</i>
	47.0404	<i>Musical Instrument Repairer*</i>
	47.0408	<i>Watch, Clock and Jewelry Repairer*</i>
	47.0499	<i>Miscellaneous Mechanics and Repairers, Other*</i>
	47.0501	<i>Stationary Energy Sources Installer and Operator*</i>
	47.0603	<i>Auto/Automotive Body Repairer*</i>
	47.0604	<i>Auto/Automotive Mechanic/Technician*</i>
	47.0605	<i>Diesel Engine Mechanic and Repairer*</i>
	47.0606	<i>Small Engine Mechanic and Repairer*</i>
	47.0607	<i>Aircraft Mechanic/Technician, Airframe*</i>
	47.0608	<i>Aircraft Mechanic/Technician, Powerplant*</i>
	47.0609	<i>Aviation Systems and Avionics Maintenance Technologist/Technician*</i>
	47.0610	<i>Bicycle Mechanic and Repairer</i>
	47.0611	<i>Motorcycle Mechanic and Repairer</i>
	47.0699	<i>Vehicle and Mobile Equipment Mechanics and Repairers, Other*</i>
	47.9999	<i>Mechanics and Repairers, Other*</i>
	49.0306	<i>Marine Maintenance and Ship Repairer*</i>
> 55262	48.0701	<i>Woodworkers, General*</i>
	48.0702	<i>Furniture Designer and Maker*</i>
	48.0703	<i>Cabinet Maker and Millworker*</i>
	48.0799	<i>Woodworkers, Other*</i>
55264	47.0201	<i>Heating, Air Conditioning, and Refrigeration Mechanic and Repairer*</i>
> 55266	49.0202	<i>Construction Equipment Operator*</i>
> 55272	48.0304	<i>Shoe, Boot, and Leather Repairer</i>
	48.0399	<i>Leatherworkers and Upholsterers, Other</i>
55274	N/A	
> 55276	20.0301	<i>Clothing, Apparel, and Textile Workers and Managers, General*</i>
	20.0303	<i>Commercial Garment and Apparel Worker*</i>
	20.0305	<i>Custom Tailor*</i>
	20.0306	<i>Fashion and Fabric Consultant*</i>
	20.0399	<i>Clothing, Apparel, and Textile Workers and Managers, Other*</i>
	48.0303	<i>Upholsterer*</i>

55278	48.0201	<i>Graphic and Printing Equipment Operator, General*</i>
	48.0205	<i>Mechanical Typesetter and Composer*</i>
	48.0206	<i>Lithographer and Platemaker*</i>
	48.0208	<i>Printing Press Operator*</i>
	48.0211	<i>Computer Typography and Composition Equipment Operator</i>
	48.0212	<i>Desktop Publishing Equipment Operator</i>
	48.0299	<i>Graphic and Printing Equipment Operators, Other*</i>
55284	41.0101	<i>Biological Technology/Technician*</i>
	41.0301	<i>Chemical Technology/Technician*</i>
	41.0399	<i>Physical Science Technology/Technicians, Other*</i>
	41.9999	<i>Science Technology/Technicians, Other*</i>
55286	N/A	
55299	48.9999	<i>Precision Production Trades, Other*</i>
554		
55402	15.1102	<i>Surveying*</i>
55406	14.2901	<i>Engineering Design</i>
	48.0101	<i>Drafting, General*</i>
	48.0102	<i>Architectural Drafting*</i>
	48.0103	<i>Civil/Structural Drafting*</i>
	48.0104	<i>Electrical/Electronics Drafting*</i>
	48.0105	<i>Mechanical Drafting*</i>
	48.0199	<i>Drafting, Other*</i>
55412	14.0601	<i>Ceramic Sciences and Engineering</i>
	14.0701	<i>Chemical Engineering</i>
	14.3201	<i>Polymer/Plastics Engineering</i>
	15.0607	<i>Plastics Technology/Technician*</i>
55416	14.0801	<i>Civil Engineering, General*</i>
	14.0802	<i>Geotechnical Engineering</i>
	14.0804	<i>Transportation and Highway Engineering</i>
	14.0805	<i>Water Resources Engineering</i>
	14.0899	<i>Civil Engineering, Other</i>
	14.2401	<i>Ocean Engineering</i>
	15.0201	<i>Civil Engineering/Civil Technology/Technician*</i>
	14.1001	<i>Construction/Building Technology/Technician*</i>

55422	14.0901	<i>Computer Engineering*</i>
	14.1001	<i>Electrical, Electronics, and Communications Engineering*</i>
	15.0301	<i>Computer Engineering Technology/Technician*</i>
	15.0303	<i>Electrical, Electronic, and Communications Engineering Technology/Technician*</i>
	15.0399	<i>Electrical and Electronic Engineering-Related Technologies/Technicians, Other*</i>
	15.0402	<i>Computer Maintenance Technology/Technician*</i>
	15.0403	<i>Electromechanical Technology/Technician*</i>
	15.0404	<i>Instrumentation Technology/Technician*</i>
	15.0405	<i>Robotics Technology/Technician*</i>
	15.0499	<i>Electromechanical Instrumentation and Maintenance Technologies/Technicians*</i>
55426	14.1701	<i>Industrial/Manufacturing Engineering*</i>
	14.3001	<i>Engineering/Industrial Management</i>
	15.0603	<i>Industrial/Manufacturing Technology/Technician*</i>
	15.0699	<i>Industrial Production Technologies/Technicians, Other*</i>
	15.0701	<i>Occupational Safety and Health Technology/Technician*</i>
	15.0702	<i>Quality Control Technology/Technician*</i>
	15.0799	<i>Quality Control and Safety Technologies/Technicians, Other</i>
55432	14.2001	<i>Metallurgical Engineering</i>
	15.0611	<i>Metallurgical Technology/Technician*</i>
55436	14.1501	<i>Geological Engineering</i>
	14.2101	<i>Mining and Mineral Engineering</i>
	15.0901	<i>Mining Technology/Technician*</i>
	15.0999	<i>Mining and Petroleum Technologies/Technicians, Other*</i>
55442	14.0201	<i>Aerospace, Aeronautical, and Astronautical Engineering*</i>
	14.1901	<i>Mechanical Engineering*</i>
	14.2201	<i>Naval Architecture and Marine Engineering</i>
	15.0801	<i>Aeronautical and Aerospace Engineering Technology/Technician*</i>
	15.0803	<i>Automotive Engineering Technology/Technician*</i>
	15.0805	<i>Mechanical Engineering/Mechanical Technology/Technician*</i>
	15.0899	<i>Mechanical Engineering-Related Technologies/Technicians, Other*</i>
	15.1103	<i>Hydraulic Technology/Technician</i>

55452	N/A	
> 55453	14.0301	<i>Agricultural Engineering</i>
55499	14.0101	<i>Engineering, General*</i>
	14.0501	<i>Bioengineering and Biomedical Engineering</i>
	14.1101	<i>Engineering Mechanics</i>
	14.1201	<i>Engineering Physics</i>
	14.1301	<i>Engineering Science*</i>
	14.1401	<i>Environmental/Environmental Health Engineering</i>
	14.1601	<i>Geophysical Engineering</i>
	14.1801	<i>Materials Engineering</i>
	14.2301	<i>Nuclear Engineering</i>
	14.2501	<i>Petroleum Engineering</i>
	14.2701	<i>Systems Engineering</i>
	14.2801	<i>Textile Sciences and Engineering</i>
	14.3101	<i>Materials Science</i>
	14.9999	<i>Engineering, Other*</i>
	15.0304	<i>Laser and Optical Technology/Technician*</i>
	15.0401	<i>Biomedical Engineering-Related Technology/Technician*</i>
	15.0501	<i>Heating, Air Conditioning, and Refrigeration Technology/Technician*</i>
	15.0503	<i>Energy Management and Systems Technology/Technician*</i>
	15.0505	<i>Solar Technology/Technician*</i>
	15.0506	<i>Water Quality and Wastewater Treatment Technology/Technician*</i>
	15.0507	<i>Environmental and Pollution Control Technology/Technician</i>
	15.0599	<i>Environmental Control Technologies/Technicians, Other*</i>
	15.0903	<i>Petroleum Technology/Technician*</i>
	15.1101	<i>Engineering-Related Technology/Technician, General*</i>
	15.9999	<i>Engineering-Related Technologies/Technicians, Other*</i>
	41.0204	<i>Industrial Radiologic Technology/Technician*</i>
	41.0205	<i>Nuclear/Nuclear Power Technology/Technician*</i>
	41.0299	<i>Nuclear and Industrial Radiologic Technologies/Technicians, Other*</i>
558		
55801	04.0201	<i>Architecture*</i>
55802	04.0501	<i>Interior Architecture*</i>

	14.0401	<i>Architectural Engineering*</i>
	14.0803	<i>Structural Engineering</i>
	15.0101	<i>Architectural Engineering Technology/Technician*</i>
55812	04.0601	<i>Landscape Architecture</i>
55822	04.0301	<i>City/Urban, Community, and Regional Planning</i>
	04.0401	<i>Architectural Environmental Design*</i>
	04.0701	<i>Architectural Urban Design and Planning</i>
> 55899	04.9999	<i>Architecture and Related Programs, Other</i>
	30.1201	<i>Historic Preservation, Conservation, and Architectural History</i>
562		
56201	01.0101	<i>Agricultural Business and Management, General*</i>
	01.0301	<i>Agricultural Production Workers and Managers, General*</i>
	02.0101	<i>Agriculture/Agricultural Sciences, General*</i>
56203	01.0302	<i>Agricultural Animal Husbandry and Production Management*</i>
	01.0303	<i>Aquaculture Operations and Production Management</i>
	01.0399	<i>Agricultural Production Workers and Managers, Other*</i>
	02.0201	<i>Animal Sciences, General*</i>
	02.0202	<i>Agricultural Animal Breeding and Genetics</i>
	02.0203	<i>Agricultural Animal Health*</i>
	02.0204	<i>Agricultural Animal Nutrition</i>
	02.0205	<i>Agricultural Animal Physiology</i>
	02.0206	<i>Dairy Science*</i>
	02.0209	<i>Poultry Science*</i>
	02.0299	<i>Animal Sciences, Other*</i>
56206	01.0601	<i>Horticulture Services Operations and Management, General*</i>
	01.0603	<i>Ornamental Horticulture Operations and Management*</i>
	01.0604	<i>Greenhouse Operations and Management*</i>
	01.0605	<i>Landscaping Operations and Management*</i>
	01.0606	<i>Nursery Operations and Management*</i>
	01.0607	<i>Turf Management*</i>
	01.0699	<i>Horticulture Services Operations and Management, Other*</i>
	02.0403	<i>Horticulture Science*</i>

56208	01.0304	<i>Crop Production Operations and Management*</i>
	02.0401	<i>Plant Sciences, General*</i>
	02.0402	<i>Agronomy and Crop Science*</i>
	02.0405	<i>Plant Breeding and Genetics</i>
	02.0406	<i>Agricultural Plant Pathology</i>
	02.0407	<i>Agricultural Plant Physiology</i>
	02.0408	<i>Plant Protection (Pest Management)</i>
	02.0409	<i>Range Science and Management</i>
	02.0499	<i>Plant Sciences, Other*</i>
56212	01.0102	<i>Agricultural Business/Agribusiness Operations*</i>
	01.0103	<i>Agricultural Economics</i>
	01.0104	<i>Farm and Ranch Management*</i>
	01.0199	<i>Agricultural Business and Management, Other</i>
> 56222	02.0301	<i>Food Sciences and Technology</i>
56226	02.0501	<i>Soil Sciences</i>
56232	51.0808	<i>Veterinarian Assistant/Animal Health Technician*</i>
	51.1104	<i>Pre-Veterinary Studies*</i>
	51.2401	<i>Veterinary Medicine (DVM)</i>
	51.2501	<i>Veterinary Clinical Sciences (MS, PhD)</i>
56249	01.0201	<i>Agricultural Mechanization, General*</i>
	01.0204	<i>Agricultural Power Machinery Operator*</i>
	01.0299	<i>Agricultural Mechanization, Other*</i>
	01.0501	<i>Agricultural Supplies Retailing and Wholesaling*</i>
	01.0505	<i>Animal Trainer</i>
	01.0507	<i>Equestrian/Equine Studies, Horse Management and Training*</i>
	01.0599	<i>Agricultural Supplies and Related Services, Other*</i>
	01.0701	<i>International Agriculture</i>
	01.9999	<i>Agricultural Business and Production, Other*</i>
	02.0102	<i>Agricultural Extension</i>
	02.9999	<i>Agriculture/Agricultural Sciences, Other</i>
56262	03.0401	<i>Forest Harvesting and Production Technology/Technician*</i>
	03.0404	<i>Forest Products Technology/Technician*</i>
	03.0405	<i>Logging/Timber Harvesting</i>
	03.0499	<i>Forest Production and Processing, Other*</i>
	03.0501	<i>Forestry, General*</i>
	03.0502	<i>Forestry Sciences*</i>
	03.0506	<i>Forest Management*</i>

	03.0509	<i>Wood Sciences and Pulp/Paper Technology</i>
	03.0599	<i>Forestry and Related Sciences, Other*</i>
	03.0601	<i>Wildlife and Wildlands Management*</i>
56272	03.0301	<i>Fishing and Fisheries Sciences and Management*</i>
	49.0303	<i>Fishing Technology/Commercial Fishing</i>
566		
56601	19.0101	<i>Home Economics, General*</i>
56612	19.0401	<i>Family Resource Management Studies</i>
	19.0402	<i>Consumer Economics and Science</i>
	19.0499	<i>Family/Consumer Resource Management, Other</i>
	19.0501	<i>Foods and Nutrition Studies, General</i>
	19.0502	<i>Foods and Nutrition Sciences</i>
	19.0503	<i>Dietetics/Human Nutritional Services*</i>
	19.0505	<i>Food Systems Administration</i>
	19.0599	<i>Foods and Nutrition Studies, Other</i>
	20.0401	<i>Institutional Food Workers and Administrators, General*</i>
	20.0404	<i>Dietician Assistant*</i>
	20.0409	<i>Institutional Food Services Administrator*</i>
	20.0499	<i>Institutional Food Workers and Administrators, Other*</i>
56622	19.0701	<i>Individual and Family Development Studies, General*</i>
	19.0706	<i>Child Growth, Care, and Development Studies</i>
	19.0799	<i>Individual and Family Development Studies, Other</i>
	20.0201	<i>Child Care and Guidance Workers and Managers, General*</i>
	20.0202	<i>Child Care Provider/Assistant*</i>
	20.0203	<i>Child Care Services Manager*</i>
	20.0299	<i>Child Care and Guidance Workers and Managers, Other*</i>
56632	19.0601	<i>Housing Studies, General</i>
	19.0603	<i>Interior Environments</i>
	19.0699	<i>Housing Studies, Other</i>
	19.0901	<i>Clothing/Apparel and Textile Studies*</i>
	20.0501	<i>Home Furnishings and Equipment Installers and Consultants, General*</i>
	20.0502	<i>Window Treatment Maker and Installer</i>
	20.0599	<i>Home Furnishings and Equipment Installers and Consultants, Other*</i>

56699	19.0201	<i>Business Home Economics</i>
	19.0202	<i>Home Economics Communications</i>
	19.9999	<i>Home Economics, Other</i>
	20.0601	<i>Custodial, Housekeeping, and Home Services Workers and Managers, General*</i>
	20.0602	<i>Elder Care Provider/Companion</i>
	20.0606	<i>Homemaker's Aide</i>
	20.0699	<i>Custodial, Housekeeping, and Home Services Workers and Managers, Other</i>
	20.9999	<i>Vocational Home Economics, Other*</i>
570		
57002	49.0102	<i>Aircraft Pilot and Navigator (Commercial)*</i>
	49.0106	<i>Flight Attendant*</i>
	49.0107	<i>Aircraft Pilot (Private)*</i>
57004	49.0309	<i>Marine Science/Merchant Marine Officer</i>
	49.0399	<i>Water Transportation Workers, Other*</i>
57006	N/A	
57008	49.0205	<i>Truck, Bus, and Other Commercial Vehicle Operator*</i>
	49.0299	<i>Vehicle and Equipment Operators, Other*</i>
57026	N/A	
57029	49.0101	<i>Aviation and Airway Science*</i>
	49.0104	<i>Aviation Management*</i>
	49.0105	<i>Air Traffic Controller*</i>
	49.0199	<i>Air Transportation Workers, Other*</i>
	49.0304	<i>Diver (Professional)*</i>
	49.9999	<i>Transportation and Material Moving Workers, Other*</i>
578		
> 57812	12.0401	<i>Cosmetic Services, General*</i>
	12.0402	<i>Barber/Hairstylist*</i>
	12.0403	<i>Cosmetologist*</i>
	12.0404	<i>Electrolysis Technician</i>
	12.0405	<i>Massage*</i>
	12.0406	<i>Make-Up Artist*</i>
	12.0499	<i>Cosmetic Services, Other*</i>

> 57822	08.0901	<i>Hospitality and Recreation Marketing Operations, General*</i>
	08.0902	<i>Hotel/Motel Services Marketing Operations</i>
	08.0903	<i>Recreation Products/Services Marketing Operations</i>
	08.0906	<i>Food Sales Operations</i>
	08.0999	<i>Hospitality and Recreation Marketing Operations, Other</i>
	12.0504	<i>Food and Beverage/Restaurant Operations Manager*</i>
	20.0604	<i>Custodian/Caretaker*</i>
	20.0605	<i>Executive Housekeeper*</i>
57826	12.0501	<i>Baker/Pastry Chef*</i>
	12.0502	<i>Bartender/Mixologist*</i>
	12.0503	<i>Culinary Arts/Chef Training*</i>
	12.0505	<i>Kitchen Personnel/Cook and Assistant Training</i>
	12.0507	<i>Waiter/Waitress and Dining Room Manager</i>
	12.0599	<i>Culinary Arts and Related Services, Other*</i>
	20.0405	<i>Food Caterer</i>
> 57842	20.0309	<i>Drycleaner and Launderer (Commercial)*</i>
57862	08.0101	<i>Apparel and Accessories Marketing Operations, General*</i>
	08.0102	<i>Fashion Merchandising*</i>
	08.0103	<i>Fashion Modeling*</i>
	08.0199	<i>Apparel and Accessories Marketing Operations, Other</i>
	08.0204	<i>Business Services Marketing Operations</i>
	08.0205	<i>Personal Services Marketing Operations</i>
	08.0299	<i>Business and Personal Services Marketing Operations, Other*</i>
	08.0401	<i>Financial Services Marketing Operations*</i>
	08.0503	<i>Floristry Marketing Operations*</i>
	08.0601	<i>Food Products Retailing and Wholesaling Operations*</i>
	08.0809	<i>Home Products Marketing Operations</i>
	08.0810	<i>Office Products Marketing Operations</i>
	08.0899	<i>Home and Office Products Marketing Operations, Other</i>
	08.1001	<i>Insurance Marketing Operations*</i>
	08.1203	<i>Vehicle Parts and Accessories Marketing Operations*</i>
	08.1208	<i>Vehicle Marketing Operations</i>
	08.1209	<i>Petroleum Products Retailing Operations</i>
	08.1299	<i>Vehicle and Petroleum Products Marketing Operations, Other*</i>
	08.1301	<i>Health Products and Services Marketing Operations</i>
	08.9999	<i>Marketing Operations/Marketing and Distribution, Other*</i>

57872	08.1104	<i>Tourism Promotion Operations*</i>
	08.1105	<i>Travel Services Marketing Operations*</i>
	08.1199	<i>Tourism and Travel Services Marketing Operations, Other*</i>
57899	12.0203	<i>Card Dealer</i>
	12.0204	<i>Umpires and Other Sports Officials</i>
	12.0299	<i>Gaming and Sports Officiating Services, Other</i>
	12.0301	<i>Funeral Services and Mortuary Science*</i>
	12.9999	<i>Personal and Miscellaneous Services, Other*</i>
584		
58402	09.0401	<i>Journalism*</i>
	09.0403	<i>Mass Communications</i>
	09.0499	<i>Journalism and Mass Communications, Other</i>
58404	09.0402	<i>Broadcast Journalism*</i>
	09.0701	<i>Radio and Television Broadcasting*</i>
	10.0104	<i>Radio and Television Broadcasting Technology/Technician*</i>
58407	09.0501	<i>Public Relations and Organizational Communications*</i>
58409	09.0101	<i>Communications, General*</i>
	09.9999	<i>Communications, Other*</i>
	10.0101	<i>Educational/Instructional Media Technology/Technician*</i>
	10.0199	<i>Communications Technologies/Technicians, Other*</i>
58422	25.0101	<i>Library Science/Librarianship*</i>
	25.0301	<i>Library Assistant*</i>
	25.9999	<i>Library Science, Other</i>
58425	30.1401	<i>Museology/Museum Studies</i>
58429	N/A	
589		
58912	43.0102	<i>Corrections/Correctional Administration*</i>
	43.0103	<i>Criminal Justice/Law Enforcement Administration*</i>
	43.0104	<i>Criminal Justice Studies*</i>

	43.0106	<i>Forensic Technology/Technician*</i>
	43.0107	<i>Law Enforcement/Police Science*</i>
	43.0109	<i>Security and Loss Prevention Services*</i>
	43.0199	<i>Criminal Justice and Corrections, Other*</i>
> 58913	45.0401	<i>Criminology*</i>
58915	43.0201	<i>Fire Protection and Safety Technology/Technician*</i>
	43.0202	<i>Fire Services Administration*</i>
	43.0203	<i>Fire Science/Firefighting*</i>
	43.0299	<i>Fire Protection, Other*</i>
58917	29.0101	<i>Military Technologies</i>
58919	43.9999	<i>Protective Services, Other*</i>
58932	19.0301	<i>Family and Community Studies*</i>
	19.0703	<i>Family and Marriage Counseling</i>
	19.0704	<i>Family Life and Relations Studies</i>
	19.0705	<i>Gerontological Services*</i>
	44.0201	<i>Community Organization, Resources, and Services*</i>
	44.0701	<i>Social Work*</i>
58942	N/A	
58952	03.0101	<i>Natural Resources Conservation, General*</i>
	03.0102	<i>Environmental Science/Studies*</i>
	03.0201	<i>Natural Resources Management and Policy*</i>
	03.0203	<i>Natural Resources Law Enforcement and Protective Services</i>
	03.0299	<i>Natural Resources Management and Protective Services, Other</i>
	03.9999	<i>Conservation and Renewable Natural Resources, Other*</i>
58962	31.0101	<i>Parks, Recreation, and Leisure Studies*</i>
	31.0301	<i>Parks, Recreation, and Leisure Facilities Management*</i>
	31.0501	<i>Health and Physical Education, General</i>
	31.0502	<i>Adapted Physical Education/Therapeutic Recreation</i>
	31.0503	<i>Athletic Training and Sports Medicine</i>
	31.0504	<i>Sport and Fitness Administration/Management</i>
	31.0505	<i>Exercise Sciences/Physiology and Movement Studies*</i>
	31.0506	<i>Socio-Psychological Sports Studies</i>
	31.0599	<i>Health and Physical Education/Fitness, Other*</i>
	31.9999	<i>Parks, Recreation, Leisure, and Fitness Studies, Other*</i>

58972

N/A

58999

30.1101

Gerontology

30.1501

Science, Technology, and Society

30.9999

*Multi-/Interdisciplinary Studies, Other**

**6. Education at the Third Level, First Stage of the
Type that Leads to a First University
Degree or Equivalent**

ISCED

IPEDS

6

Bac *Bachelor's Degree*

PBC *Postbaccalaureate Certificate*

ISCED

CIP

601

60100

24.0101

*Liberal Arts and Sciences/Liberal Studies**

24.0102

*General Studies**

24.0199

*Liberal Arts and Sciences/General Studies and
Humanities, Other**

614

61401

13.0101

*Education, General**

13.1202

*Elementary Teacher Education**

13.1203

*Junior High/Intermediate/Middle School Teacher
Education**

13.1205

*Secondary Teacher Education**

13.1206

*Teacher Education, Multiple Levels**

13.1299

*General Teacher Education, Other**

13.1501

Teacher Assistant/Aide

61404

13.1302

*Art Teacher Education**

13.1305

*English Teacher Education**

13.1306

*Foreign Languages Teacher Education**

13.1307

*Health Teacher Education**

13.1311

*Mathematics Teacher Education**

13.1312

*Music Teacher Education**

13.1314

*Physical Education Teaching and Coaching**

13.1315

*Reading Teacher Education**

13.1316

*Science Teacher Education, General**

13.1317

*Social Science Teacher Education**

13.1318

*Social Studies Teacher Education**

13.1321

*Computer Teacher Education**

13.1322

*Biology Teacher Education**

	13.1323	<i>Chemistry Teacher Education</i>
	13.1324	<i>Drama and Dance Teacher Education</i>
	13.1325	<i>French Language Teacher Education</i>
	13.1326	<i>German Language Teacher Education</i>
	13.1328	<i>History Teacher Education*</i>
	13.1329	<i>Physics Teacher Education</i>
	13.1330	<i>Spanish Language Teacher Education*</i>
	13.1331	<i>Speech Teacher Education*</i>
	13.1401	<i>Teaching English as a Second Language/Foreign Language*</i>
61408	13.1301	<i>Agricultural Teacher Education*</i>
	13.1303	<i>Business Teacher Education*</i>
	13.1304	<i>Driver and Safety Teacher Education*</i>
	13.1308	<i>Home Economics Teacher Education*</i>
	13.1309	<i>Technology/Industrial Arts Teacher Education*</i>
	13.1310	<i>Marketing Operations/Marketing and Distribution Teacher Education*</i>
	13.1319	<i>Technical Teacher Education*</i>
	13.1320	<i>Trade and Insustrial Teacher Education*</i>
	13.1327	<i>Health Occupations Teacher Education*</i>
61412	13.1204	<i>Pre-Elementary/Early Childhood/Kindergarten Teacher Education*</i>
61416	13.1201	<i>Adult and Continuing Teacher Education*</i>
61422	13.1001	<i>Special Education, General*</i>
	13.1003	<i>Education of the Deaf and Hearing Impaired*</i>
	13.1005	<i>Education of the Emotionally Handicapped*</i>
	13.1006	<i>Education of the Mentally Handicapped*</i>
	13.1007	<i>Education of the Multiple Handicapped*</i>
	13.1008	<i>Education of the Physically Handicapped*</i>
	13.1009	<i>Education of the Blind and Visually Handicapped*</i>
	13.1011	<i>Education of the Specific Learning Disabled*</i>
	13.1012	<i>Education of the Speech Impaired*</i>
	13.1013	<i>Education of the Autistic</i>
	13.1099	<i>Special Education, Other*</i>
61432	N/A	
> 61472	13.0301	<i>Curriculum and Instruction*</i>
	13.0601	<i>Educational Evaluation and Research</i>
	13.0603	<i>Educational Statistics and Research Methods</i>
	13.0604	<i>Educational Assessment, Testing, and Measurement</i>

	13.0699	<i>Educational Evaluation, Research, and Statistics, Other</i>
	13.0701	<i>International and Comparative Education</i>
	13.0802	<i>Educational Psychology*</i>
	13.0901	<i>Social and Philosophical Foundations of Education</i>
61499	13.0201	<i>Bilingual/Bicultural Education*</i>
	13.0501	<i>Educational/Instructional Media Design*</i>
	13.1004	<i>Education of the Gifted and Talented</i>
	13.1101	<i>Counselor Education/Counseling and Guidance Services*</i>
	13.1102	<i>College/Postsecondary Student Counseling and Personnel Services</i>
	13.1399	<i>Teacher Education, Specific Academic and Vocational Programs, Other*</i>
	13.9999	<i>Education, Other*</i>
618		
61801	50.0401	<i>Design and Visual Communications*</i>
	50.0701	<i>Art, General*</i>
	50.0702	<i>Fine/Studio Arts*</i>
> 61802	50.0703	<i>Art History, Criticism, and Conservation*</i>
61804	50.0705	<i>Drawing*</i>
	50.0708	<i>Painting*</i>
	50.0710	<i>Printmaking*</i>
61808	50.0709	<i>Sculpture*</i>
> 61812	50.0201	<i>Crafts, Folk Art, and Artisanry*</i>
	50.0711	<i>Ceramic Arts and Ceramics*</i>
	50.0712	<i>Fiber, Textile, and Weaving Arts*</i>
	50.0713	<i>Metal and Jewelry Arts*</i>
61822	50.0901	<i>Music, General*</i>
	50.0902	<i>Music History and Literature*</i>
	50.0903	<i>Music — General Performance*</i>
	50.0904	<i>Music Theory and Composition*</i>
	50.0905	<i>Musicology and Ethnomusicology</i>
	50.0906	<i>Music Conducting</i>
	50.0907	<i>Music — Piano and Organ Performance*</i>
	50.0908	<i>Music — Voice and Choral/Opera Performance</i>
	50.0909	<i>Music Business Management and Merchandising*</i>

	50.0999	<i>Music, Other*</i>
61832	50.0501	<i>Drama/Theatre Arts, General*</i>
	50.0502	<i>Technical Theatre/Theatre Design and Stagecraft*</i>
	50.0503	<i>Acting and Directing</i>
	50.0504	<i>Playwriting and Screenwriting</i>
	50.0505	<i>Drama/Theatre Literature, History, and Criticism</i>
	50.0599	<i>Drama/Theatre Arts and Stagecraft, Other</i>
> 61842	10.0103	<i>Photographic Technology/Technician*</i>
	50.0406	<i>Commercial Photography</i>
	50.0601	<i>Film/Cinema Studies*</i>
	50.0602	<i>Film-Video Making/Cinematography and Production*</i>
	50.0605	<i>Photography*</i>
	50.0699	<i>Film/Video and Photographic Arts, Other*</i>
61852	50.0408	<i>Interior Design*</i>
61899	50.0101	<i>Visual and Performing Arts*</i>
	50.0301	<i>Dance*</i>
	50.0402	<i>Graphic Design, Commercial Art, and Illustration*</i>
	50.0404	<i>Industrial Design*</i>
	50.0407	<i>Fashion Design and Illustration*</i>
	50.0499	<i>Design and Applied Arts, Other*</i>
	50.0704	<i>Arts Management*</i>
	50.0706	<i>Intermedia*</i>
	50.0799	<i>Fine Arts and Art Studies, Other*</i>
	50.9999	<i>Visual and Performing Arts, Other*</i>
622		
62201	24.0103	<i>Humanities/Humanistic Studies*</i>
62202	16.0103	<i>Foreign Language Interpretation and Translation</i>
> 62208	16.0101	<i>Foreign Languages and Literatures, General*</i>
	16.9999	<i>Foreign Languages and Literatures, Other*</i>
62211	23.0101	<i>English Language and Literature, General*</i>
	23.0401	<i>English Composition*</i>
	23.0501	<i>English Creative Writing*</i>
	23.0701	<i>American Literature (United States)*</i>
	23.0801	<i>English Literature (British and Commonwealth)*</i>
	23.1001	<i>Speech and Rhetorical Studies*</i>

	23.1101	<i>English Technical and Business Writing*</i>
	23.9999	<i>English Language and Literature/Letters, Other*</i>
62215	16.0301	<i>Chinese Language and Literature*</i>
	16.0302	<i>Japanese Language and Literature*</i>
	16.0399	<i>East and Southeast Asian Languages and Literatures, Other*</i>
	16.0402	<i>Russian Language and Literature*</i>
	16.0403	<i>Slavic Languages and Literatures (Other Than Russian)*</i>
	16.0499	<i>East European Languages and Literatures, Other</i>
	16.0501	<i>German Language and Literature*</i>
	16.0502	<i>Scandinavian Languages and Literatures*</i>
	16.0599	<i>Germanic Languages and Literatures, Other*</i>
	16.0601	<i>Greek Language and Literature (Modern)</i>
	16.0703	<i>South Asian Languages and Literatures</i>
	16.0901	<i>French Language and Literature*</i>
	16.0902	<i>Italian Language and Literature*</i>
	16.0904	<i>Portuguese Language and Literature*</i>
	16.0905	<i>Spanish Language and Literature*</i>
	16.0999	<i>Romance Languages and Literatures, Other*</i>
	16.1101	<i>Arabic Language and Literature</i>
	16.1102	<i>Hebrew Language and Literature*</i>
	16.1199	<i>Middle Eastern Languages and Literatures, Other</i>
62221	16.1201	<i>Classics and Classical Languages and Literatures*</i>
	16.1202	<i>Greek Language and Literature (Ancient and Medieval)*</i>
	16.1203	<i>Latin Language and Literature (Ancient and Medieval)*</i>
	16.1299	<i>Classical and Ancient Near Eastern Languages and Literatures, Other</i>
62231	16.0102	<i>Linguistics*</i>
62241	23.0301	<i>Comparative Literature*</i>
62251	45.0801	<i>History, General*</i>
	45.0802	<i>American (United States) History</i>
	45.0803	<i>European History</i>
	45.0804	<i>History and Philosophy of Science and Technology</i>
	45.0805	<i>Public/Applied History and Archival Administration</i>
	45.0899	<i>History, Other*</i>
62261	45.0301	<i>Archaeology*</i>

62271	38.0101	<i>Philosophy*</i>
62299	05.0204	<i>Islamic Studies</i>
	05.0205	<i>Jewish/Judaic Studies*</i>
	30.1301	<i>Medieval and Renaissance Studies</i>
626		
62600	38.0201	<i>Religion/Religious Studies*</i>
	38.9999	<i>Philosophy and Religion</i>
	39.0101	<i>Biblical and Other Theological Languages and Literatures*</i>
	39.0201	<i>Bible/Biblical Studies*</i>
	39.0301	<i>Missions/Missionary Studies and Missiology*</i>
	39.0401	<i>Religious Education*</i>
	39.0501	<i>Religious/Sacred Music*</i>
	39.0601	<i>Theology/Theological Studies*</i>
	39.0602	<i>Divinity/Ministry (BD, MDiv)</i>
	39.0603	<i>Rabbinical and Talmudic Studies (MHL, Rav)</i>
	39.0604	<i>Pre-Theological/Pre-Ministerial Studies*</i>
	39.0699	<i>Theological and Ministerial Studies, Other*</i>
	39.0701	<i>Pastoral Counseling and Specialized Ministries</i>
	39.9999	<i>Theological Studies and Religious Vocations, Other*</i>
630		
63001	45.0101	<i>Social Sciences, General*</i>
63012	45.0601	<i>Economics, General*</i>
	45.0602	<i>Applied and Resource Economics</i>
	45.0603	<i>Econometrics and Quantitative Economics</i>
	45.0604	<i>Development Economics and International Development</i>
	45.0605	<i>International Economics</i>
	45.0699	<i>Economics, Other*</i>
63022	45.0901	<i>International Relations and Affairs*</i>
	45.1001	<i>Political Science, General*</i>
	45.1002	<i>American Government and Politics</i>
	45.1099	<i>Political Science and Government, Other*</i>
63032	45.1101	<i>Sociology*</i>
63042	45.0201	<i>Anthropology*</i>

63052	42.0101	<i>Psychology, General*</i>
	42.0201	<i>Clinical Psychology*</i>
	42.0301	<i>Cognitive Psychology and Psycholinguistics*</i>
	42.0401	<i>Community Psychology*</i>
	42.0601	<i>Counseling Psychology*</i>
	42.0701	<i>Developmental and Child Psychology*</i>
	42.0801	<i>Experimental Psychology</i>
	42.0901	<i>Industrial and Organizational Psychology*</i>
	42.1101	<i>Physiological Psychology/Psychobiology*</i>
	42.1601	<i>Social Psychology*</i>
	42.1701	<i>School Psychology</i>
	42.9999	<i>Psychology, Other*</i>
63062	45.0701	<i>Geography*</i>
	45.0702	<i>Cartography*</i>
63072	05.0101	<i>African Studies*</i>
	05.0102	<i>American Studies/Civilization*</i>
	05.0103	<i>Asian Studies*</i>
	05.0104	<i>East Asian Studies*</i>
	05.0105	<i>Eastern European Area Studies*</i>
	05.0106	<i>European Studies*</i>
	05.0107	<i>Latin American Studies*</i>
	05.0108	<i>Middle Eastern Studies*</i>
	05.0109	<i>Pacific Area Studies</i>
	05.0110	<i>Russian and Slavic Area Studies*</i>
	05.0111	<i>Scandinavian Area Studies*</i>
	05.0112	<i>South Asian Studies*</i>
	05.0113	<i>Southeast Asian Studies</i>
	05.0114	<i>Western European Studies*</i>
	05.0115	<i>Canadian Studies</i>
	05.0199	<i>Area Studies, Other*</i>
63099	05.0201	<i>Afro-American (Black) Studies*</i>
	05.0202	<i>American Indian/Native American Studies*</i>
	05.0203	<i>Hispanic-American Studies*</i>
	05.0206	<i>Asian-American Studies</i>
	05.0207	<i>Women's Studies*</i>
	05.0299	<i>Ethnic and Cultural Studies, Other*</i>
	05.9999	<i>Area, Ethnic, and Cultural Studies, Other*</i>
	30.0501	<i>Peace and Conflict Studies*</i>
	45.0501	<i>Demography/Population Studies</i>
	45.1201	<i>Urban Affairs/Studies*</i>
	45.9999	<i>Social Sciences and History, Other*</i>

634

63401	52.0101	<i>Business, General*</i>
	52.0201	<i>Business Administration and Management, General*</i>
> 63404	52.0401	<i>Administrative Assistant/Secretarial Science, General*</i>
	52.0402	<i>Executive Assistant/Secretary*</i>
	52.0403	<i>Legal Administrative Assistant/Secretary</i>
	52.0404	<i>Medical Administrative Assistant/Secretary</i>
	52.0405	<i>Court Reporter*</i>
	52.0406	<i>Receptionist</i>
	52.0499	<i>Administrative and Secretarial Services, Other</i>
> 63408	52.0408	<i>General Office/Clerical and Typing Services*</i>
> 63426	52.0407	<i>Information Processing/Data Entry Technician</i>
	52.1201	<i>Management Information Systems and Business Data Processing, General*</i>
	52.1202	<i>Business Computer Programming/Programmer*</i>
	52.1203	<i>Business Systems Analysis and Design*</i>
	52.1204	<i>Business Systems Networking and Telecommunications</i>
	52.1205	<i>Business Computer Facilities Operator</i>
	52.1299	<i>Business Information and Data Processing Services, Other</i>
63432	52.0301	<i>Accounting*</i>
	52.0302	<i>Accounting Technician*</i>
	52.0399	<i>Accounting, Other</i>
> 63434	08.0701	<i>Auctioneering</i>
	08.0704	<i>General Buying Operations</i>
	08.0705	<i>General Retailing Operations*</i>
	08.0706	<i>General Selling Skills and Sales Operations*</i>
	08.0708	<i>General Marketing Operations*</i>
	08.0709	<i>General Distribution Operations</i>
	08.0799	<i>General Retailing and Wholesaling Operations and Skills, Other*</i>
	09.0201	<i>Advertising*</i>
	52.1401	<i>Business Marketing and Marketing Management*</i>
	52.1402	<i>Marketing Research*</i>
	52.1403	<i>International Business Marketing*</i>
	52.1499	<i>Marketing Management and Research, Other*</i>
	52.0801	<i>Finance, General*</i>
	52.0803	<i>Banking and Financial Support Services*</i>

	52.0804	<i>Financial Planning</i>
	52.0805	<i>Insurance and Risk Management*</i>
	52.0806	<i>International Finance</i>
	52.0807	<i>Investments and Securities*</i>
	52.0899	<i>Financial Management and Services, Other*</i>
	52.1601	<i>Taxation</i>
63439	08.0301	<i>Entrepreneurship*</i>
	52.0202	<i>Purchasing, Procurement, and Contracts Management*</i>
	52.0203	<i>Logistics and Materials Management*</i>
	52.0204	<i>Office Supervision and Management*</i>
	52.0205	<i>Operations Management and Supervision*</i>
	52.0299	<i>Business Administration and Management, Other*</i>
	52.0501	<i>Business Communications</i>
	52.0601	<i>Business/Managerial Economics*</i>
	52.0701	<i>Enterprise Management and Operation, General*</i>
	52.0702	<i>Franchise Operation</i>
	52.0799	<i>Enterprise Management and Operation, Other</i>
	52.0901	<i>Hospitality Administration/Management*</i>
	52.0902	<i>Hotel/Motel and Restaurant Management*</i>
	52.0903	<i>Travel and Tourism Management*</i>
	52.0999	<i>Hospitality Services Management, Other*</i>
	52.1001	<i>Human Resources Management*</i>
	52.1002	<i>Labor/Personnel Relations and Studies*</i>
	52.1003	<i>Organizational Behavior Studies</i>
	52.1099	<i>Human Resources Management, Other</i>
	52.1101	<i>International Business*</i>
	52.1301	<i>Management Science*</i>
	52.1302	<i>Business Statistics</i>
	52.1399	<i>Business Quantitative Methods and Management Science, Other*</i>
	52.1501	<i>Real Estate*</i>
	52.9999	<i>Business Management and Administrative Services, Other*</i>
63452	44.0401	<i>Public Administration*</i>
	44.0501	<i>Public Policy Analysis*</i>
	44.9999	<i>Public Administration and Services, Other*</i>
	52.0808	<i>Public Finance</i>
63462	13.0401	<i>Education Administration and Supervision, General*</i>
	13.0402	<i>Administration of Special Education</i>
	13.0403	<i>Adult and Continuing Education Administration</i>
	13.0404	<i>Educational Supervision</i>
	13.0405	<i>Elementary, Middle, and Secondary Education</i>

		<i>Administration</i>
	13.0406	<i>Higher Education Administration</i>
	13.0407	<i>Community and Junior College Education</i>
	13.0499	<i>Education Administration and Supervision, Other</i>
	51.0701	<i>Health System/Health Services Administration*</i>
	51.0702	<i>Hospital/Health Facilities Administration*</i>
	51.0705	<i>Medical Office Management</i>
	51.0706	<i>Medical Records Administration*</i>
	51.0707	<i>Medical Records Technology/Technician</i>
	51.0708	<i>Medical Transcription</i>
	51.0799	<i>Health and Medical Administrative Services, Other*</i>
	52.0206	<i>Non-Profit and Public Management</i>
638		
63801	22.0101	<i>Law (LLB, JD)</i>
	22.0102	<i>Pre-Law Studies*</i>
	22.0103	<i>Paralegal/Legal Assistant*</i>
63812	N/A	
63899	22.0104	<i>Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)</i>
	22.0199	<i>Law and Legal Studies, Other*</i>
642		
64202	26.0101	<i>Biology, General*</i>
	26.0202	<i>Biochemistry*</i>
	26.0203	<i>Biophysics</i>
	26.0301	<i>Botany, General*</i>
	26.0305	<i>Plant Pathology</i>
	26.0307	<i>Plant Physiology</i>
	26.0399	<i>Botany, Other</i>
	26.0401	<i>Cell Biology*</i>
	26.0402	<i>Molecular Biology*</i>
	26.0499	<i>Cell and Molecular Biology, Other*</i>
	26.0501	<i>Microbiology/Bacteriology*</i>
	26.0601	<i>Anatomy*</i>
	26.0603	<i>Ecology*</i>
	26.0607	<i>Marine/Aquatic Biology*</i>
	26.0608	<i>Neuroscience*</i>
	26.0609	<i>Nutritional Sciences*</i>

	26.0610	<i>Parasitology</i>
	26.0611	<i>Radiation Biology/Radiobiology</i>
	26.0612	<i>Toxicology*</i>
	26.0613	<i>Genetics, Plant and Animal*</i>
	26.0614	<i>Biometrics*</i>
	26.0615	<i>Biostatistics</i>
	26.0616	<i>Biotechnology Research</i>
	26.0617	<i>Evolutionary Biology</i>
	26.0618	<i>Biological Immunology</i>
	26.0619	<i>Virology</i>
	26.0699	<i>Miscellaneous Biological Specializations, Other*</i>
	26.0701	<i>Zoology, General*</i>
	26.0702	<i>Entomology*</i>
	26.0704	<i>Pathology, Human and Animal</i>
	26.0705	<i>Pharmacology, Human and Animal</i>
	26.0706	<i>Physiology, Human and Animal*</i>
	26.0799	<i>Zoology, Other</i>
	26.9999	<i>Biological Sciences/Life Sciences, Other*</i>
64212	40.0501	<i>Chemistry, General*</i>
	40.0502	<i>Analytical Chemistry</i>
	40.0503	<i>Inorganic Chemistry</i>
	40.0504	<i>Organic Chemistry</i>
	40.0505	<i>Medicinal/Pharmaceutical Chemistry</i>
	40.0506	<i>Physical and Theoretical Chemistry*</i>
	40.0507	<i>Polymer Chemistry*</i>
	40.0599	<i>Chemistry, Other</i>
64222	40.0601	<i>Geology*</i>
	40.0602	<i>Geochemistry</i>
	40.0603	<i>Geophysics and Seismology*</i>
	40.0604	<i>Paleontology</i>
	40.0699	<i>Geological and Related Sciences, Other*</i>
64232	40.0801	<i>Physics, General*</i>
	40.0802	<i>Chemical and Atomic/Molecular Physics</i>
	40.0804	<i>Elementary Particle Physics</i>
	40.0805	<i>Plasma and High-Temperature Physics</i>
	40.0806	<i>Nuclear Physics</i>
	40.0807	<i>Optics*</i>
	40.0808	<i>Solid State and Low-Temperature Physics</i>
	40.0809	<i>Acoustics</i>
	40.0810	<i>Theoretical and Mathematical Physics</i>
	40.0899	<i>Physics, Other*</i>

64242	40.0201	<i>Astronomy*</i>
	40.0301	<i>Astrophysics*</i>
64252	40.0401	<i>Atmospheric Sciences and Meteorology*</i>
64262	40.0702	<i>Oceanography*</i>
64299	30.0101	<i>Biological and Physical Sciences*</i>
	30.0601	<i>Systems Science and Theory*</i>
	30.1001	<i>Biopsychology</i>
	40.0101	<i>Physical Sciences, General*</i>
	40.0701	<i>Metallurgy</i>
	40.0703	<i>Earth and Planetary Sciences*</i>
	40.0799	<i>Miscellaneous Physical Sciences, Other*</i>
	40.9999	<i>Physical Sciences, Other*</i>
646		
64601	27.0101	<i>Mathematics*</i>
64611	27.0501	<i>Mathematical Statistics*</i>
64621	52.0802	<i>Actuarial Science*</i>
64639	27.0301	<i>Applied Mathematics, General*</i>
	27.0302	<i>Operations Research*</i>
	27.0399	<i>Applied Mathematics, Other</i>
	27.9999	<i>Mathematics, Other*</i>
	30.0801	<i>Mathematics and Computer Science*</i>
64641	11.0101	<i>Computer and Information Sciences, General*</i>
	11.0201	<i>Computer Programming*</i>
	11.0301	<i>Data Processing Technology/Technician*</i>
	11.0401	<i>Information Sciences and Systems*</i>
	11.0501	<i>Computer Systems Analysis*</i>
	11.0701	<i>Computer Science*</i>
	11.9999	<i>Computer and Information Sciences, Other*</i>
650		
65002	51.0301	<i>Community Health Liason*</i>
	51.2201	<i>Public Health, General*</i>
	51.2202	<i>Environmental Health*</i>

	51.2203	<i>Epidemiology</i>
	51.2204	<i>Health and Medical Biostatistics</i>
	51.2205	<i>Health Physics/Radiologic Health</i>
	51.2206	<i>Occupational Health and Industrial Hygiene</i>
	51.2207	<i>Public Health Education and Promotion*</i>
	51.2299	<i>Public Health, Other*</i>
65006	51.0807	<i>Physician Assistant*</i>
	51.1102	<i>Pre-Medicine Studies*</i>
	51.1201	<i>Medicine (MD)</i>
	51.1401	<i>Medical Clinical Sciences (MS, PhD)</i>
	51.1901	<i>Osteopathic Medicine (DO)</i>
65008	51.0803	<i>Occupational Therapy Assistant</i>
	51.0806	<i>Physical Therapy Assistant</i>
	51.2301	<i>Art Therapy*</i>
	51.2302	<i>Dance Therapy</i>
	51.2303	<i>Hypnotherapy</i>
	51.2304	<i>Movement Therapy</i>
	51.2305	<i>Music Therapy*</i>
	51.2306	<i>Occupational Therapy*</i>
	51.2307	<i>Orthotics/Prosthetics*</i>
	51.2308	<i>Physical Therapy*</i>
	51.2309	<i>Recreational Therapy*</i>
	51.2310	<i>Vocational Rehabilitation Counseling*</i>
	51.2399	<i>Rehabilitation/Therapeutic Services, Other*</i>
65012	51.1601	<i>Nursing (RN Training)*</i>
	51.1602	<i>Nursing Administration*</i>
	51.1603	<i>Nursing, Adult Health</i>
	51.1604	<i>Nursing Anesthetist*</i>
	51.1605	<i>Nursing, Family Practice</i>
	51.1606	<i>Nursing, Maternal/Child Health</i>
	51.1608	<i>Nursing Science</i>
	51.1609	<i>Nursing, Pediatric</i>
	51.1610	<i>Nursing, Psychiatric/Mental Health</i>
	51.1611	<i>Nursing, Public Health</i>
	51.1612	<i>Nursing, Surgical</i>
	51.1613	<i>Practical Nurse (LPN Training)</i>
	51.1614	<i>Nurse Assistant/Aide</i>
	51.1615	<i>Home Health Aide</i>
	51.1699	<i>Nursing, Other*</i>
> 65015	51.1607	<i>Nursing Midwifery</i>

> 65017	51.0907	<i>Medical Radiologic Technology/Technician*</i>
> 65019	51.0901	<i>Cardiovascular Technology/Technician*</i>
	51.0902	<i>Electrocardiograph Technology/Technician</i>
	51.0903	<i>Electroencephalograph Technology/Technician</i>
	51.0904	<i>Emergency Medical Technology/Technician*</i>
	51.0905	<i>Nuclear Medical Technology/Technician*</i>
	51.0906	<i>Perfusion Technology/Technician</i>
	51.0908	<i>Respiratory Therapy Technology/Technician*</i>
	51.0909	<i>Surgical/Operating Room Technician</i>
	51.0910	<i>Diagnostic Medical Sonography*</i>
	51.0999	<i>Health and Medical Diagnostic and Treatment Services, Other*</i>
65030	51.0802	<i>Medical Laboratory Assistant</i>
	51.1001	<i>Blood Bank Technology/Technician</i>
	51.1002	<i>Cytotechnologist*</i>
	51.1003	<i>Hematology Technology/Technician</i>
	51.1004	<i>Medical Laboratory Technician*</i>
	51.1005	<i>Medical Technology*</i>
	51.1006	<i>Optometric/Ophthalmic Laboratory Technician</i>
	51.1099	<i>Health and Medical Laboratory Technologists/Technicians, Other*</i>
65042	51.0401	<i>Dentistry (DDS, DMD)</i>
	51.0501	<i>Dental Clinical Sciences/Graduate Dentistry (MS, PhD)</i>
	51.1101	<i>Pre-Dentistry Studies*</i>
> 65046	51.0601	<i>Dental Assistant</i>
	51.0602	<i>Dental Hygienist*</i>
	51.0603	<i>Dental Laboratory Technician</i>
	51.0699	<i>Dental Services, Other</i>
65052	51.0805	<i>Pharmacy Technician/Assistant</i>
	51.1103	<i>Pre-Pharmacy Studies*</i>
	51.2001	<i>Pharmacy (BPharm, PharmD)</i>
	51.2002	<i>Pharmacy Administration and Pharmaceutics</i>
	51.2003	<i>Medical Pharmacology and Pharmaceutical Sciences</i>
	51.2099	<i>Pharmacy, Other*</i>
65062	51.0804	<i>Ophthalmic Medical Assistant</i>
	51.1701	<i>Optometry (OD)</i>
	51.1801	<i>Opticianry/Dispensing Optician</i>
	51.1802	<i>Optical Technician/Assistant</i>
	51.1803	<i>Ophthalmic Medical Technologist</i>

	51.1804	<i>Orthoptics</i>
	51.1899	<i>Ophthalmic/Optometric Services, Other*</i>
65099	51.0101	<i>Chiropractic (DC, DCM)</i>
	51.0201	<i>Communication Disorders, General*</i>
	51.0202	<i>Audiology/Hearing Sciences*</i>
	51.0203	<i>Speech-Language Pathology*</i>
	51.0204	<i>Speech-Language Pathology and Audiology*</i>
	51.0205	<i>Sign Language Interpreter*</i>
	51.0299	<i>Communication Disorders Sciences and Services, Other*</i>
	51.0703	<i>Health Unit Coordinator/Ward Clerk</i>
	51.0704	<i>Health Unit Manager/Ward Supervisor</i>
	51.0801	<i>Medical Assistant</i>
	51.0899	<i>Health and Medical Assistants, Other</i>
	51.1199	<i>Health and Medical Preparatory Programs, Other*</i>
	51.1301	<i>Medical Anatomy</i>
	51.1302	<i>Medical Biochemistry</i>
	51.1303	<i>Medical Biomathematics and Biometrics</i>
	51.1304	<i>Medical Physics/Biophysics</i>
	51.1305	<i>Medical Cell Biology</i>
	51.1306	<i>Medical Genetics</i>
	51.1307	<i>Medical Immunology</i>
	51.1308	<i>Medical Microbiology</i>
	51.1309	<i>Medical Molecular Biology</i>
	51.1310	<i>Medical Neurobiology</i>
	51.1311	<i>Medical Nutrition</i>
	51.1312	<i>Medical Pathology</i>
	51.1313	<i>Medical Physiology</i>
	51.1314	<i>Medical Toxicology</i>
	51.1399	<i>Basic Medical Sciences, Other*</i>
	51.1501	<i>Alcohol/Drug Abuse Counseling*</i>
	51.1502	<i>Psychiatric/Mental Health Services Technician*</i>
	51.1503	<i>Clinical and Medical Social Work*</i>
	51.1599	<i>Mental Health Services, Other*</i>
	51.2101	<i>Podiatry (DPM, DP, PodD)</i>
	51.2601	<i>Health Aide</i>
	51.2701	<i>Acupuncture and Oriental Medicine*</i>
	51.2702	<i>Medical Dietician</i>
	51.2703	<i>Medical Illustrating*</i>
	51.2704	<i>Naturopathic Medicine</i>
	51.2705	<i>Psychoanalysis</i>
	51.9999	<i>Health Professions and Related Sciences, Other*</i>

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> 65212	01.0401	<i>Agricultural and Food Products Processing Operations and Management</i>
	12.0506	<i>Meatcutter</i>
> 65216	46.0101	<i>Mason and Tile Setter</i>
	46.0201	<i>Carpenter</i>
	46.0301	<i>Electrical and Power Transmission Installer, General</i>
	46.0302	<i>Electrician</i>
	46.0303	<i>Lineworker</i>
	46.0399	<i>Electrical and Power Transmission Installer, Other</i>
	46.0401	<i>Building/Property Maintenance and Manager</i>
	46.0403	<i>Construction/Building Inspector</i>
	46.0408	<i>Painter and Wall Coverer</i>
	46.0499	<i>Construction and Building Finishers and Managers, Other*</i>
	46.0501	<i>Plumber and Pipefitter</i>
	46.9999	<i>Construction Trades, Other</i>
> 65222	47.0101	<i>Electrical and Electronics Equipment Installer and Repairer, General</i>
	47.0102	<i>Business Machine Repairer</i>
	47.0103	<i>Communication Systems Installer and Repairer</i>
	47.0104	<i>Computer Installer and Repairer</i>
	47.0105	<i>Industrial Electronics Installer and Repairer</i>
	47.0106	<i>Major Appliance Installer and Repairer</i>
	47.0199	<i>Electrical and Electronics Equipment Installer and Repairer, Other</i>
> 65232	48.0501	<i>Machinist/Machine Technologist</i>
	48.0503	<i>Machine Shop Assistant</i>
	48.0506	<i>Sheet Metal Worker</i>
	48.0507	<i>Tool and Die Maker/Technologist</i>
	48.0508	<i>Welder/Welding Technologist</i>
	48.0599	<i>Precision Metal Workers, Other</i>
> 65242	47.0302	<i>Heavy Equipment Maintenance and Repairer</i>
	47.0303	<i>Industrial Machinery Maintenance and Repairer</i>
	47.0399	<i>Industrial Equipment Maintenance and Repairers, Other</i>
	47.0401	<i>Instrument Calibration and Repairer</i>
	47.0402	<i>Gunsmith</i>
	47.0403	<i>Locksmith and Safe Repairer</i>
	47.0404	<i>Musical Instrument Repairer</i>
	47.0408	<i>Watch, Clock and Jewelry Repairer</i>

	47.0499	<i>Miscellaneous Mechanics and Repairers, Other</i>
	47.0501	<i>Stationary Energy Sources Installer and Operator</i>
	47.0603	<i>Auto/Automotive Body Repairer</i>
	47.0604	<i>Auto/Automotive Mechanic/Technician</i>
	47.0605	<i>Diesel Engine Mechanic and Repairer</i>
	47.0606	<i>Small Engine Mechanic and Repairer</i>
	47.0607	<i>Aircraft Mechanic/Technician, Airframe</i>
	47.0608	<i>Aircraft Mechanic/Technician, Powerplant</i>
	47.0609	<i>Aviation Systems and Avionics Maintenance Technologist/Technician</i>
	47.0610	<i>Bicycle Mechanic and Repairer</i>
	47.0611	<i>Motorcycle Mechanic and Repairer</i>
	47.0699	<i>Vehicle and Mobile Equipment Mechanics and Repairers, Other</i>
	47.9999	<i>Mechanics and Repairers, Other</i>
	49.0306	<i>Marine Maintenance and Ship Repairer</i>
> 65262	48.0701	<i>Woodworkers, General</i>
	48.0702	<i>Furniture Designer and Maker</i>
	48.0703	<i>Cabinet Maker and Millworker</i>
	48.0799	<i>Woodworkers, Other</i>
> 65276	20.0301	<i>Clothing, Apparel, and Textile Workers and Managers, General</i>
	20.0303	<i>Commercial Garment and Apparel Worker</i>
	20.0305	<i>Custom Tailor</i>
	20.0306	<i>Fashion and Fabric Consultant</i>
	20.0399	<i>Clothing, Apparel, and Textile Workers and Managers, Other</i>
> 65278	48.0201	<i>Graphic and Printing Equipment Operator, General*</i>
	48.0205	<i>Mechanical Typesetter and Composer</i>
	48.0206	<i>Lithographer and Platemaker</i>
	48.0208	<i>Printing Press Operator</i>
	48.0211	<i>Computer Typography and Composition Equipment Operator</i>
	48.0212	<i>Desktop Publishing Equipment Operator</i>
	48.0299	<i>Graphic and Printing Equipment Operators, Other*</i>
> 65284	41.0101	<i>Biological Technology/Technician*</i>
	41.0301	<i>Chemical Technology/Technician*</i>
	41.0399	<i>Physical Science Technology/Technicians, Other</i>
	41.9999	<i>Science Technology/Technicians, Other*</i>
> 65299	48.9999	<i>Precision Production Trades, Other</i>

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> 65402	15.1102	<i>Surveying*</i>
> 65406	14.2901	<i>Engineering Design</i>
	48.0101	<i>Drafting, General*</i>
	48.0102	<i>Architectural Drafting</i>
	48.0103	<i>Civil/Structural Drafting</i>
	48.0104	<i>Electrical/Electronics Drafting</i>
	48.0105	<i>Mechanical Drafting</i>
	48.0199	<i>Drafting, Other</i>
65412	14.0601	<i>Ceramic Sciences and Engineering*</i>
	14.0701	<i>Chemical Engineering*</i>
	14.3201	<i>Polymer/Plastics Engineering*</i>
	15.0607	<i>Plastics Technology/Technician*</i>
65416	14.0801	<i>Civil Engineering, General*</i>
	14.0802	<i>Geotechnical Engineering</i>
	14.0804	<i>Transportation and Highway Engineering</i>
	14.0805	<i>Water Resources Engineering</i>
	14.0899	<i>Civil Engineering, Other*</i>
	14.2401	<i>Ocean Engineering*</i>
	15.0201	<i>Civil Engineering/Civil Technology/Technician*</i>
	14.1001	<i>Construction/Building Technology/Technician*</i>
65422	14.0901	<i>Computer Engineering*</i>
	14.1001	<i>Electrical, Electronics, and Communications Engineering*</i>
	15.0301	<i>Computer Engineering Technology/Technician*</i>
	15.0303	<i>Electrical, Electronic, and Communications Engineering Technology/Technician*</i>
	15.0399	<i>Electrical and Electronic Engineering-Related Technologies/Technicians, Other*</i>
	15.0402	<i>Computer Maintenance Technology/Technician</i>
	15.0403	<i>Electromechanical Technology/Technician*</i>
	15.0404	<i>Instrumentation Technology/Technician</i>
	15.0405	<i>Robotics Technology/Technician*</i>
	15.0499	<i>Electromechanical Instrumentation and Maintenance Technologies/Technicians</i>
65426	14.1701	<i>Industrial/Manufacturing Engineering*</i>
	14.3001	<i>Engineering/Industrial Management*</i>
	15.0603	<i>Industrial/Manufacturing Technology/Technician*</i>

	15.0699	<i>Industrial Production Technologies/Technicians, Other*</i>
	15.0701	<i>Occupational Safety and Health Technology/Technician*</i>
	15.0702	<i>Quality Control Technology/Technician</i>
	15.0799	<i>Quality Control and Safety Technologies/Technicians, Other</i>
65432	14.2001	<i>Metallurgical Engineering*</i>
	15.0611	<i>Metallurgical Technology/Technician</i>
65436	14.1501	<i>Geological Engineering*</i>
	14.2101	<i>Mining and Mineral Engineering*</i>
	15.0901	<i>Mining Technology/Technician*</i>
	15.0999	<i>Mining and Petroleum Technologies/Technicians, Other</i>
65442	14.0201	<i>Aerospace, Aeronautical, and Astronautical Engineering*</i>
	14.1901	<i>Mechanical Engineering*</i>
	14.2201	<i>Naval Architecture and Marine Engineering*</i>
	15.0801	<i>Aeronautical and Aerospace Engineering Technology/Technician*</i>
	15.0803	<i>Automotive Engineering Technology/Technician*</i>
	15.0805	<i>Mechanical Engineering/Mechanical Technology/Technician*</i>
	15.0899	<i>Mechanical Engineering-Related Technologies/Technicians, Other*</i>
	15.1103	<i>Hydraulic Technology/Technician</i>
65453	14.0301	<i>Agricultural Engineering*</i>
65463	N/A	
65499	14.0101	<i>Engineering, General*</i>
	14.0501	<i>Bioengineering and Biomedical Engineering*</i>
	14.1101	<i>Engineering Mechanics*</i>
	14.1201	<i>Engineering Physics*</i>
	14.1301	<i>Engineering Science*</i>
	14.1401	<i>Environmental/Environmental Health Engineering*</i>
	14.1601	<i>Geophysical Engineering*</i>
	14.1801	<i>Materials Engineering*</i>
	14.2301	<i>Nuclear Engineering*</i>
	14.2501	<i>Petroleum Engineering*</i>
	14.2701	<i>Systems Engineering*</i>
	14.2801	<i>Textile Sciences and Engineering*</i>
	14.3101	<i>Materials Science</i>
	14.9999	<i>Engineering, Other*</i>

15.0304	<i>Laser and Optical Technology/Technician</i>
15.0401	<i>Biomedical Engineering-Related Technology/Technician</i>
15.0501	<i>Heating, Air Conditioning, and Refrigeration Technology/Technician</i>
15.0503	<i>Energy Management and Systems Technology/Technician*</i>
15.0505	<i>Solar Technology/Technician</i>
15.0506	<i>Water Quality and Wastewater Treatment Technology/Technician*</i>
15.0507	<i>Environmental and Pollution Control Technology/Technician*</i>
15.0599	<i>Environmental Control Technologies/Technicians, Other*</i>
15.0903	<i>Petroleum Technology/Technician</i>
15.1101	<i>Engineering-Related Technology/Technician, General*</i>
15.9999	<i>Engineering-Related Technologies/Technicians, Other*</i>
41.0204	<i>Industrial Radiologic Technology/Technician</i>
41.0205	<i>Nuclear/Nuclear Power Technology/Technician</i>
41.0299	<i>Nuclear and Industrial Radiologic Technologies/Technicians, Other</i>

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65801	04.0201	<i>Architecture*</i>
65802	04.0501	<i>Interior Architecture*</i>
	14.0401	<i>Architectural Engineering*</i>
	14.0803	<i>Structural Engineering</i>
	15.0101	<i>Architectural Engineering Technology/Technician*</i>
65812	04.0601	<i>Landscape Architecture*</i>
65822	04.0301	<i>City/Urban, Community, and Regional Planning*</i>
	04.0401	<i>Architectural Environmental Design*</i>
	04.0701	<i>Architectural Urban Design and Planning</i>
> 65899	04.9999	<i>Architecture and Related Programs, Other*</i>
	30.1201	<i>Historic Preservation, Conservation, and Architectural History</i>

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66201	01.0101	<i>Agricultural Business and Management, General*</i>
	01.0301	<i>Agricultural Production Workers and Managers, General*</i>
	02.0101	<i>Agriculture/Agricultural Sciences, General*</i>
66203	01.0302	<i>Agricultural Animal Husbandry and Production Management*</i>
	01.0303	<i>Aquaculture Operations and Production Management*</i>
	01.0399	<i>Agricultural Production Workers and Managers, Other</i>
	02.0201	<i>Animal Sciences, General*</i>
	02.0202	<i>Agricultural Animal Breeding and Genetics</i>
	02.0203	<i>Agricultural Animal Health*</i>
	02.0204	<i>Agricultural Animal Nutrition</i>
	02.0205	<i>Agricultural Animal Physiology</i>
	02.0206	<i>Dairy Science*</i>
	02.0209	<i>Poultry Science*</i>
	02.0299	<i>Animal Sciences, Other*</i>
66206	01.0601	<i>Horticulture Services Operations and Management, General*</i>
	01.0603	<i>Ornamental Horticulture Operations and Management*</i>
	01.0604	<i>Greenhouse Operations and Management</i>
	01.0605	<i>Landscaping Operations and Management*</i>
	01.0606	<i>Nursery Operations and Management</i>
	01.0607	<i>Turf Management</i>
	01.0699	<i>Horticulture Services Operations and Management, Other</i>
	02.0403	<i>Horticulture Science*</i>
66208	01.0304	<i>Crop Production Operations and Management</i>
	02.0401	<i>Plant Sciences, General*</i>
	02.0402	<i>Agronomy and Crop Science*</i>
	02.0405	<i>Plant Breeding and Genetics</i>
	02.0406	<i>Agricultural Plant Pathology</i>
	02.0407	<i>Agricultural Plant Physiology</i>
	02.0408	<i>Plant Protection (Pest Management)*</i>
	02.0409	<i>Range Science and Management*</i>
66212	02.0499	<i>Plant Sciences, Other*</i>
	01.0102	<i>Agricultural Business/Agribusiness Operations*</i>
	01.0103	<i>Agricultural Economics*</i>
	01.0104	<i>Farm and Ranch Management*</i>
	01.0199	<i>Agricultural Business and Management, Other*</i>

66222	02.0301	<i>Food Sciences and Technology*</i>
66226	02.0501	<i>Soil Sciences*</i>
66232	51.0808	<i>Veterinarian Assistant/Animal Health Technician*</i>
	51.1104	<i>Pre-Veterinary Studies*</i>
	51.2401	<i>Veterinary Medicine (DVM)</i>
	51.2501	<i>Veterinary Clinical Sciences (MS, PhD)</i>
66249	01.0201	<i>Agricultural Mechanization, General*</i>
	01.0204	<i>Agricultural Power Machinery Operator</i>
	01.0299	<i>Agricultural Mechanization, Other*</i>
	01.0501	<i>Agricultural Supplies Retailing and Wholesaling</i>
	01.0505	<i>Animal Trainer</i>
	01.0507	<i>Equestrian/Equine Studies, Horse Management and Training*</i>
	01.0599	<i>Agricultural Supplies and Related Services, Other</i>
	01.0701	<i>International Agriculture</i>
	01.9999	<i>Agricultural Business and Production, Other*</i>
	02.0102	<i>Agricultural Extension</i>
	02.9999	<i>Agriculture/Agricultural Sciences, Other*</i>
66262	03.0401	<i>Forest Harvesting and Production Technology/Technician*</i>
	03.0404	<i>Forest Products Technology/Technician*</i>
	03.0405	<i>Logging/Timber Harvesting</i>
	03.0499	<i>Forest Production and Processing, Other*</i>
	03.0501	<i>Forestry, General*</i>
	03.0502	<i>Forestry Sciences*</i>
	03.0506	<i>Forest Management*</i>
	03.0509	<i>Wood Sciences and Pulp/Paper Technology*</i>
	03.0599	<i>Forestry and Related Sciences, Other*</i>
	03.0601	<i>Wildlife and Wildlands Management*</i>
66272	03.0301	<i>Fishing and Fisheries Sciences and Management*</i>
	49.0303	<i>Fishing Technology/Commercial Fishing</i>
666		
66601	19.0101	<i>Home Economics, General*</i>
66612	19.0401	<i>Family Resource Management Studies*</i>
	19.0402	<i>Consumer Economics and Science*</i>
	19.0499	<i>Family/Consumer Resource Management, Other</i>

	19.0501	<i>Foods and Nutrition Studies, General*</i>
	19.0502	<i>Foods and Nutrition Science*</i>
	19.0503	<i>Dietetics/Human Nutritional Services*</i>
	19.0505	<i>Food Systems Administration</i>
	19.0599	<i>Foods and Nutrition Studies, Other*</i>
	20.0401	<i>Institutional Food Workers and Administrators, General*</i>
	20.0404	<i>Dietician Assistant</i>
	20.0409	<i>Institutional Food Services Administrator*</i>
	20.0499	<i>Institutional Food Workers and Administrators, Other</i>
> 66622	19.0701	<i>Individual and Family Development Studies, General*</i>
	19.0706	<i>Child Growth, Care, and Development Studies*</i>
	19.0799	<i>Individual and Family Development Studies, Other*</i>
	20.0201	<i>Child Care and Guidance Workers and Managers, General*</i>
	20.0202	<i>Child Care Provider/Assistant</i>
	20.0203	<i>Child Care Services Manager</i>
	20.0299	<i>Child Care and Guidance Workers and Managers, Other</i>
66632	19.0601	<i>Housing Studies, General*</i>
	19.0603	<i>Interior Environments*</i>
	19.0699	<i>Housing Studies, Other*</i>
	19.0901	<i>Clothing/Apparel and Textile Studies*</i>
	20.0501	<i>Home Furnishings and Equipment Installers and Consultants, General*</i>
	20.0502	<i>Window Treatment Maker and Installer</i>
	20.0599	<i>Home Furnishings and Equipment Installers and Consultants, Other*</i>
66699	19.0201	<i>Business Home Economics*</i>
	19.0202	<i>Home Economics Communications</i>
	19.9999	<i>Home Economics, Other*</i>
	20.0601	<i>Custodial, Housekeeping, and Home Services Workers and Managers, General*</i>
	20.0602	<i>Elder Care Provider/Companion</i>
	20.0606	<i>Homemaker's Aide</i>
	20.0699	<i>Custodial, Housekeeping, and Home Services Workers and Managers, Other</i>
	20.9999	<i>Vocational Home Economics, Other</i>

> 670

> 67002	49.0102	<i>Aircraft Pilot and Navigator (Commercial)*</i>
	49.0106	<i>Flight Attendant</i>
	49.0107	<i>Aircraft Pilot (Private)</i>
> 67004	49.0309	<i>Marine Science/Merchant Marine Officer*</i>
	49.0399	<i>Water Transportation Workers, Other</i>
> 67029	49.0101	<i>Aviation and Airway Science*</i>
	49.0104	<i>Aviation Management*</i>
	49.0105	<i>Air Traffic Controller*</i>
	49.0199	<i>Air Transportation Workers, Other*</i>
	49.0304	<i>Diver (Professional)</i>
	49.9999	<i>Transportation and Material Moving Workers, Other</i>

> 678

> 67812	12.0401	<i>Cosmetic Services, General</i>
	12.0402	<i>Barber/Hairstylist</i>
	12.0403	<i>Cosmetologist</i>
	12.0404	<i>Electrolysis Technician</i>
	12.0405	<i>Massage</i>
	12.0406	<i>Make-Up Artist</i>
	12.0499	<i>Cosmetic Services, Other</i>
> 67822	08.0901	<i>Hospitality and Recreation Marketing Operations, General</i>
	08.0902	<i>Hotel/Motel Services Marketing Operations</i>
	08.0903	<i>Recreation Products/Services Marketing Operations</i>
	08.0906	<i>Food Sales Operations</i>
	08.0999	<i>Hospitality and Recreation Marketing Operations, Other</i>
	12.0504	<i>Food and Beverage/Restaurant Operations Manager*</i>
	20.0604	<i>Custodian/Caretaker</i>
	20.0605	<i>Executive Housekeeper</i>
> 67862	08.0101	<i>Apparel and Accessories Marketing Operations, General*</i>
	08.0102	<i>Fashion Merchandising*</i>
	08.0103	<i>Fashion Modeling</i>
	08.0199	<i>Apparel and Accessories Marketing Operations, Other</i>
	08.0204	<i>Business Services Marketing Operations</i>
	08.0205	<i>Personal Services Marketing Operations</i>
	08.0299	<i>Business and Personal Services Marketing Operations,</i>

		<i>Other*</i>
	08.0401	<i>Financial Services Marketing Operations</i>
	08.0503	<i>Floristry Marketing Operations</i>
	08.0601	<i>Food Products Retailing and Wholesaling Operations</i>
	08.0809	<i>Home Products Marketing Operations</i>
	08.0810	<i>Office Products Marketing Operations</i>
	08.0899	<i>Home and Office Products Marketing Operations, Other</i>
	08.1001	<i>Insurance Marketing Operations</i>
	08.1203	<i>Vehicle Parts and Accessories Marketing Operations</i>
	08.1208	<i>Vehicle Marketing Operations</i>
	08.1209	<i>Petroleum Products Retailing Operations</i>
	08.1299	<i>Vehicle and Petroleum Products Marketing Operations, Other</i>
	08.1301	<i>Health Products and Services Marketing Operations</i>
	08.9999	<i>Marketing Operations/Marketing and Distribution, Other*</i>
> 67872	08.1104	<i>Tourism Promotion Operations*</i>
	08.1105	<i>Travel Services Marketing Operations</i>
	08.1199	<i>Tourism and Travel Services Marketing Operations, Other*</i>
> 67899	12.0203	<i>Card Dealer</i>
	12.0204	<i>Umpires and Other Sports Officials</i>
	12.0299	<i>Gaming and Sports Officiating Services, Other</i>
	12.0301	<i>Funeral Services and Mortuary Science*</i>
	12.9999	<i>Personal and Miscellaneous Services, Other</i>
684		
68402	09.0401	<i>Journalism*</i>
	09.0403	<i>Mass Communications*</i>
	09.0499	<i>Journalism and Mass Communications, Other*</i>
68404	09.0402	<i>Broadcast Journalism*</i>
	09.0701	<i>Radio and Television Broadcasting*</i>
	10.0104	<i>Radio and Television Broadcasting Technology/Technician*</i>
68407	09.0501	<i>Public Relations and Organizational Communications*</i>
68409	09.0101	<i>Communications, General*</i>
	09.9999	<i>Communications, Other*</i>
	10.0101	<i>Educational/Instructional Media Technology/Technician</i>

	10.0199	<i>Communications Technologies/Technicians, Other*</i>
68422	25.0101	<i>Library Science/Librarianship*</i>
	25.0301	<i>Library Assistant</i>
	25.9999	<i>Library Science, Other</i>
> 68425	30.1401	<i>Museology/Museum Studies</i>
689		
> 68912	43.0102	<i>Corrections/Correctional Administration*</i>
	43.0103	<i>Criminal Justice/Law Enforcement Administration*</i>
	43.0104	<i>Criminal Justice Studies*</i>
	43.0106	<i>Forensic Technology/Technician*</i>
	43.0107	<i>Law Enforcement/Police Science*</i>
	43.0109	<i>Security and Loss Prevention Services*</i>
	43.0199	<i>Criminal Justice and Corrections, Other*</i>
68913	45.0401	<i>Criminology*</i>
> 68915	43.0201	<i>Fire Protection and Safety Technology/Technician*</i>
	43.0202	<i>Fire Services Administration*</i>
	43.0203	<i>Fire Science/Firefighting</i>
	43.0299	<i>Fire Protection, Other</i>
> 68917	29.0101	<i>Military Technologies</i>
> 68919	43.9999	<i>Protective Services, Other*</i>
68932	19.0301	<i>Family and Community Studies*</i>
	19.0703	<i>Family and Marriage Counseling</i>
	19.0704	<i>Family Life and Relations Studies*</i>
	19.0705	<i>Gerontological Services*</i>
	44.0201	<i>Community Organization, Resources, and Services*</i>
	44.0701	<i>Social Work*</i>
68942	N/A	
68952	03.0101	<i>Natural Resources Conservation, General*</i>
	03.0102	<i>Environmental Science/Studies*</i>
	03.0201	<i>Natural Resources Management and Policy*</i>
	03.0203	<i>Natural Resources Law Enforcement and Protective Services</i>
	03.0299	<i>Natural Resources Management and Protective Services,</i>

		<i>Other</i>
	03.9999	<i>Conservation and Renewable Natural Resources, Other*</i>
68962	31.0101	<i>Parks, Recreation, and Leisure Studies*</i>
	31.0301	<i>Parks, Recreation, and Leisure Facilities Management*</i>
	31.0501	<i>Health and Physical Education, General*</i>
	31.0502	<i>Adapted Physical Education/Therapeutic Recreation</i>
	31.0503	<i>Athletic Training and Sports Medicine*</i>
	31.0504	<i>Sport and Fitness Administration/Management*</i>
	31.0505	<i>Exercise Sciences/Physiology and Movement Studies*</i>
	31.0506	<i>Socio-Psychological Sports Studies</i>
	31.0599	<i>Health and Physical Education/Fitness, Other*</i>
	31.9999	<i>Parks, Recreation, Leisure, and Fitness Studies, Other*</i>
68972	N/A	
68999	30.1101	<i>Gerontology*</i>
	30.1501	<i>Science, Technology, and Society*</i>
	30.9999	<i>Multi-/Interdisciplinary Studies, Other*</i>

**7. Education at the Third Level, Second Stage of
the Type that Leads to a Post-Graduate
University Degree or Equivalent**

ISCED

IPEDS

7

Mas *Master's Degree*

PMC *Post-Master's Certificate*

Doc *Doctor's Degree*

1PD *First-Professional Degree*

1PC *First-Professional Certificate (Post-Degree)*

ISCED

CIP

> 701

> 70100

24.0101 *Liberal Arts and Sciences/Liberal Studies**

24.0102 *General Studies**

24.0199 *Liberal Arts and Sciences/General Studies and
Humanities, Other**

714

71401

13.0101 *Education, General**

13.1202 *Elementary Teacher Education**

13.1203 *Junior High/Intermediate/Middle School Teacher
Education**

13.1205 *Secondary Teacher Education**

13.1206 *Teacher Education, Multiple Levels**

13.1299 *General Teacher Education, Other**

13.1501 *Teacher Assistant/Aide*

71404

13.1302 *Art Teacher Education**

13.1305 *English Teacher Education**

13.1306 *Foreign Languages Teacher Education**

13.1307 *Health Teacher Education**

13.1311 *Mathematics Teacher Education**

13.1312 *Music Teacher Education**

13.1314 *Physical Education Teaching and Coaching**

13.1315 *Reading Teacher Education**

13.1316 *Science Teacher Education, General**

13.1317 *Social Science Teacher Education**

	13.1318	<i>Social Studies Teacher Education*</i>
	13.1321	<i>Computer Teacher Education*</i>
	13.1322	<i>Biology Teacher Education*</i>
	13.1323	<i>Chemistry Teacher Education</i>
	13.1324	<i>Drama and Dance Teacher Education</i>
	13.1325	<i>French Language Teacher Education</i>
	13.1326	<i>German Language Teacher Education</i>
	13.1328	<i>History Teacher Education*</i>
	13.1329	<i>Physics Teacher Education</i>
	13.1330	<i>Spanish Language Teacher Education</i>
	13.1331	<i>Speech Teacher Education</i>
	13.1401	<i>Teaching English as a Second Language/Foreign Language*</i>
71408	13.1301	<i>Agricultural Teacher Education*</i>
	13.1303	<i>Business Teacher Education*</i>
	13.1304	<i>Driver and Safety Teacher Education*</i>
	13.1308	<i>Home Economics Teacher Education*</i>
	13.1309	<i>Technology/Industrial Arts Teacher Education*</i>
	13.1310	<i>Marketing Operations/Marketing and Distribution Teacher Education*</i>
	13.1319	<i>Technical Teacher Education*</i>
	13.1320	<i>Trade and Industrial Teacher Education*</i>
	13.1327	<i>Health Occupations Teacher Education</i>
71412	13.1204	<i>Pre-Elementary/Early Childhood/Kindergarten Teacher Education*</i>
71416	13.1201	<i>Adult and Continuing Teacher Education*</i>
71422	13.1001	<i>Special Education, General*</i>
	13.1003	<i>Education of the Deaf and Hearing Impaired*</i>
	13.1005	<i>Education of the Emotionally Handicapped*</i>
	13.1006	<i>Education of the Mentally Handicapped*</i>
	13.1007	<i>Education of the Multiple Handicapped*</i>
	13.1008	<i>Education of the Physically Handicapped*</i>
	13.1009	<i>Education of the Blind and Visually Handicapped</i>
	13.1011	<i>Education of the Specific Learning Disabled*</i>
	13.1012	<i>Education of the Speech Impaired*</i>
	13.1013	<i>Education of the Autistic</i>
	13.1099	<i>Special Education, Other*</i>

71432	N/A	
71472	13.0301	<i>Curriculum and Instruction*</i>
	13.0601	<i>Educational Evaluation and Research*</i>
	13.0603	<i>Educational Statistics and Research Methods*</i>
	13.0604	<i>Educational Assessment, Testing, and Measurement*</i>
	13.0699	<i>Educational Evaluation, Research, and Statistics, Other</i>
	13.0701	<i>International and Comparative Education*</i>
	13.0802	<i>Educational Psychology*</i>
	13.0901	<i>Social and Philosophical Foundations of Education*</i>
71499	13.0201	<i>Bilingual/Bicultural Education*</i>
	13.0501	<i>Educational/Instructional Media Design*</i>
	13.1004	<i>Education of the Gifted and Talented*</i>
	13.1101	<i>Counselor Education/Counseling and Guidance Services*</i>
	13.1102	<i>College/Postsecondary Student Counseling and Personnel Services*</i>
	13.1399	<i>Teacher Education, Specific Academic and Vocational Programs, Other*</i>
	13.9999	<i>Education, Other*</i>
718		
> 71801	50.0401	<i>Design and Visual Communications*</i>
	50.0701	<i>Art, General*</i>
	50.0702	<i>Fine/Studio Arts*</i>
71802	50.0703	<i>Art History, Criticism, and Conservation*</i>
71804	50.0705	<i>Drawing*</i>
	50.0708	<i>Painting*</i>
	50.0710	<i>Printmaking*</i>
71808	50.0709	<i>Sculpture*</i>
> 71812	50.0201	<i>Crafts, Folk Art, and Artisanry</i>
	50.0711	<i>Ceramic Arts and Ceramics*</i>
	50.0712	<i>Fiber, Textile, and Weaving Arts*</i>
	50.0713	<i>Metal and Jewelry Arts*</i>
71822	50.0901	<i>Music, General*</i>
	50.0902	<i>Music History and Literature*</i>
	50.0903	<i>Music — General Performance*</i>

	50.0904	<i>Music Theory and Composition*</i>
	50.0905	<i>Musicology and Ethnomusicology</i>
	50.0906	<i>Music Conducting*</i>
	50.0907	<i>Music — Piano and Organ Performance*</i>
	50.0908	<i>Music — Voice and Choral/Opera Performance*</i>
	50.0909	<i>Music Business Management and Merchandising</i>
	50.0999	<i>Music, Other*</i>
71832	50.0501	<i>Drama/Theatre Arts, General*</i>
	50.0502	<i>Technical Theatre/Theatre Design and Stagecraft*</i>
	50.0503	<i>Acting and Directing*</i>
	50.0504	<i>Playwriting and Screenwriting</i>
	50.0505	<i>Drama/Theatre Literature, History, and Criticism</i>
	50.0599	<i>Drama/Theatre Arts and Stagecraft, Other*</i>
> 71842	10.0103	<i>Photographic Technology/Technician</i>
	50.0406	<i>Commercial Photography</i>
	50.0601	<i>Film/Cinema Studies*</i>
	50.0602	<i>Film-Video Making/Cinematography and Production*</i>
	50.0605	<i>Photography*</i>
	50.0699	<i>Film/Video and Photographic Arts, Other*</i>
71852	50.0408	<i>Interior Design</i>
71899	50.0101	<i>Visual and Performing Arts*</i>
	50.0301	<i>Dance*</i>
	50.0402	<i>Graphic Design, Commercial Art, and Illustration*</i>
	50.0404	<i>Industrial Design*</i>
	50.0407	<i>Fashion Design and Illustration</i>
	50.0499	<i>Design and Applied Arts, Other*</i>
	50.0704	<i>Arts Management*</i>
	50.0706	<i>Intermedia</i>
	50.0799	<i>Fine Arts and Art Studies, Other*</i>
	50.9999	<i>Visual and Performing Arts, Other*</i>
722		
> 72201	24.0103	<i>Humanities/Humanistic Studies*</i>
> 72202	16.0103	<i>Foreign Language Interpretation and Translation</i>
> 72208	16.0101	<i>Foreign Languages and Literatures, General*</i>
	16.9999	<i>Foreign Languages and Literatures, Other*</i>

72211	23.0101	<i>English Language and Literature, General*</i>
	23.0401	<i>English Composition</i>
	23.0501	<i>English Creative Writing*</i>
	23.0701	<i>American Literature (United States)</i>
	23.0801	<i>English Literature (British and Commonwealth)*</i>
	23.1001	<i>Speech and Rhetorical Studies*</i>
	23.1101	<i>English Technical and Business Writing*</i>
	23.9999	<i>English Language and Literature/Letters, Other*</i>
72215	16.0301	<i>Chinese Language and Literature*</i>
	16.0302	<i>Japanese Language and Literature*</i>
	16.0399	<i>East and Southeast Asian Languages and Literatures, Other*</i>
	16.0402	<i>Russian Language and Literature*</i>
	16.0403	<i>Slavic Languages and Literatures (Other Than Russian)*</i>
	16.0499	<i>East European Languages and Literatures, Other</i>
	16.0501	<i>German Language and Literature*</i>
	16.0502	<i>Scandinavian Languages and Literatures</i>
	16.0599	<i>Germanic Languages and Literatures, Other</i>
	16.0601	<i>Greek Language and Literature (Modern)</i>
	16.0703	<i>South Asian Languages and Literatures</i>
	16.0901	<i>French Language and Literature*</i>
	16.0902	<i>Italian Language and Literature*</i>
	16.0904	<i>Portuguese Language and Literature</i>
	16.0905	<i>Spanish Language and Literature*</i>
	16.0999	<i>Romance Languages and Literatures, Other*</i>
	16.1101	<i>Arabic Language and Literature</i>
	16.1102	<i>Hebrew Language and Literature*</i>
	16.1199	<i>Middle Eastern Languages and Literatures, Other</i>
72221	16.1201	<i>Classics and Classical Languages and Literatures*</i>
	16.1202	<i>Greek Language and Literature (Ancient and Medieval)*</i>
	16.1203	<i>Latin Language and Literature (Ancient and Medieval)*</i>
	16.1299	<i>Classical and Ancient Near Eastern Languages and Literatures, Other</i>
72231	16.0102	<i>Linguistics*</i>
72241	23.0301	<i>Comparative Literature*</i>
72251	45.0801	<i>History, General*</i>
	45.0802	<i>American (United States) History</i>
	45.0803	<i>European History</i>

	45.0804	<i>History and Philosophy of Science and Technology</i>
	45.0805	<i>Public/Applied History and Archival Administration</i>
	45.0899	<i>History, Other</i>
72261	45.0301	<i>Archaeology*</i>
72271	38.0101	<i>Philosophy*</i>
72299	05.0204	<i>Islamic Studies</i>
	05.0205	<i>Jewish/Judaic Studies*</i>
	30.1301	<i>Medieval and Renaissance Studies</i>
726		
72600	38.0201	<i>Religion/Religious Studies*</i>
	38.9999	<i>Philosophy and Religion*</i>
	39.0101	<i>Biblical and Other Theological Languages and Literatures*</i>
	39.0201	<i>Bible/Biblical Studies*</i>
	39.0301	<i>Missions/Missionary Studies and Missiology*</i>
	39.0401	<i>Religious Education*</i>
	39.0501	<i>Religious/Sacred Music*</i>
	39.0601	<i>Theology/Theological Studies*</i>
	39.0602	<i>Divinity/Ministry (BD, MDiv)*</i>
	39.0603	<i>Rabbinical and Talmudic Studies (MHL, Rav)*</i>
	39.0604	<i>Pre-Theological/Pre-Ministerial Studies</i>
	39.0699	<i>Theological and Ministerial Studies, Other*</i>
	39.0701	<i>Pastoral Counseling and Specialized Ministries*</i>
	39.9999	<i>Theological Studies and Religious Vocations, Other*</i>
730		
> 73001	45.0101	<i>Social Sciences, General*</i>
73012	45.0601	<i>Economics, General*</i>
	45.0602	<i>Applied and Resource Economics</i>
	45.0603	<i>Econometrics and Quantitative Economics</i>
	45.0604	<i>Development Economics and International Development</i>
	45.0605	<i>International Economics</i>
	45.0699	<i>Economics, Other</i>
73022	45.0901	<i>International Relations and Affairs*</i>
	45.1001	<i>Political Science, General*</i>

	45.1002	<i>American Government and Politics</i>
	45.1099	<i>Political Science and Government, Other</i>
73032	45.1101	<i>Sociology*</i>
73042	45.0201	<i>Anthropology*</i>
73052	42.0101	<i>Psychology, General*</i>
	42.0201	<i>Clinical Psychology*</i>
	42.0301	<i>Cognitive Psychology and Psycholinguistics*</i>
	42.0401	<i>Community Psychology*</i>
	42.0601	<i>Counseling Psychology*</i>
	42.0701	<i>Developmental and Child Psychology*</i>
	42.0801	<i>Experimental Psychology*</i>
	42.0901	<i>Industrial and Organizational Psychology*</i>
	42.1101	<i>Physiological Psychology/Psychobiology</i>
	42.1601	<i>Social Psychology*</i>
	42.1701	<i>School Psychology*</i>
	42.9999	<i>Psychology, Other*</i>
73062	45.0701	<i>Geography*</i>
	45.0702	<i>Cartography</i>
73072	05.0101	<i>African Studies</i>
	05.0102	<i>American Studies/Civilization*</i>
	05.0103	<i>Asian Studies*</i>
	05.0104	<i>East Asian Studies*</i>
	05.0105	<i>Eastern European Area Studies</i>
	05.0106	<i>European Studies</i>
	05.0107	<i>Latin American Studies*</i>
	05.0108	<i>Middle Eastern Studies*</i>
	05.0109	<i>Pacific Area Studies</i>
	05.0110	<i>Russian and Slavic Area Studies*</i>
	05.0111	<i>Scandinavian Area Studies</i>
	05.0112	<i>South Asian Studies</i>
	05.0113	<i>Southeast Asian Studies</i>
	05.0114	<i>Western European Studies*</i>
	05.0115	<i>Canadian Studies</i>
	05.0199	<i>Area Studies, Other*</i>
73099	05.0201	<i>Afro-American (Black) Studies*</i>
	05.0202	<i>American Indian/Native American Studies</i>
	05.0203	<i>Hispanic-American Studies*</i>
	05.0206	<i>Asian-American Studies</i>
	05.0207	<i>Women's Studies*</i>

	05.0299	<i>Ethnic and Cultural Studies, Other*</i>
	05.9999	<i>Area, Ethnic, and Cultural Studies, Other*</i>
	30.0501	<i>Peace and Conflict Studies*</i>
	45.0501	<i>Demography/Population Studies*</i>
	45.1201	<i>Urban Affairs/Studies*</i>
	45.9999	<i>Social Sciences and History, Other*</i>
734		
> 73401	52.0101	<i>Business, General*</i>
	52.0201	<i>Business Administration and Management, General*</i>
> 73426	52.0407	<i>Information Processing/Data Entry Technician</i>
	52.1201	<i>Management Information Systems and Business Data Processing, General*</i>
	52.1202	<i>Business Computer Programming/Programmer</i>
	52.1203	<i>Business Systems Analysis and Design</i>
	52.1204	<i>Business Systems Networking and Telecommunications</i>
	52.1205	<i>Business Computer Facilities Operator</i>
	52.1299	<i>Business Information and Data Processing Services, Other</i>
73432	52.0301	<i>Accounting*</i>
	52.0302	<i>Accounting Technician</i>
	52.0399	<i>Accounting, Other*</i>
73434	08.0701	<i>Auctioneering</i>
	08.0704	<i>General Buying Operations</i>
	08.0705	<i>General Retailing Operations</i>
	08.0706	<i>General Selling Skills and Sales Operations</i>
	08.0708	<i>General Marketing Operations*</i>
	08.0709	<i>General Distribution Operations</i>
	08.0799	<i>General Retailing and Wholesaling Operations and Skills, Other</i>
	09.0201	<i>Advertising*</i>
	52.1401	<i>Business Marketing and Marketing Management*</i>
	52.1402	<i>Marketing Research*</i>
	52.1403	<i>International Business Marketing</i>
	52.1499	<i>Marketing Management and Research, Other*</i>
73436	52.0801	<i>Finance, General*</i>
	52.0803	<i>Banking and Financial Support Services</i>
	52.0804	<i>Financial Planning</i>
	52.0805	<i>Insurance and Risk Management*</i>

	52.0806	<i>International Finance</i>
	52.0807	<i>Investments and Securities*</i>
	52.0899	<i>Financial Management and Services, Other*</i>
	52.1601	<i>Taxation*</i>
73439	08.0301	<i>Entrepreneurship</i>
	52.0202	<i>Purchasing, Procurement, and Contracts Management*</i>
	52.0203	<i>Logistics and Materials Management*</i>
	52.0204	<i>Office Supervision and Management</i>
	52.0205	<i>Operations Management and Supervision*</i>
	52.0299	<i>Business Administration and Management, Other*</i>
	52.0501	<i>Business Communications</i>
	52.0601	<i>Business/Managerial Economics*</i>
	52.0701	<i>Enterprise Management and Operation, General</i>
	52.0702	<i>Franchise Operation</i>
	52.0799	<i>Enterprise Management and Operation, Other</i>
	52.0901	<i>Hospitality Administration/Management*</i>
	52.0902	<i>Hotel/Motel and Restaurant Management*</i>
	52.0903	<i>Travel and Tourism Management*</i>
	52.0999	<i>Hospitality Services Management, Other*</i>
	52.1001	<i>Human Resources Management*</i>
	52.1002	<i>Labor/Personnel Relations and Studies*</i>
	52.1003	<i>Organizational Behavior Studies*</i>
	52.1099	<i>Human Resources Management, Other</i>
	52.1101	<i>International Business*</i>
	52.1301	<i>Management Science*</i>
	52.1302	<i>Business Statistics*</i>
	52.1399	<i>Business Quantitative Methods and Management Science, Other*</i>
	52.1501	<i>Real Estate*</i>
	52.9999	<i>Business Management and Administrative Services, Other*</i>
73452	44.0401	<i>Public Administration*</i>
	44.0501	<i>Public Policy Analysis*</i>
	44.9999	<i>Public Administration and Services, Other*</i>
	52.0808	<i>Public Finance</i>
73462	13.0401	<i>Education Administration and Supervision, General*</i>
	13.0402	<i>Administration of Special Education*</i>
	13.0403	<i>Adult and Continuing Education Administration*</i>
	13.0404	<i>Educational Supervision*</i>
	13.0405	<i>Elementary, Middle, and Secondary Education Administration*</i>
	13.0406	<i>Higher Education Administration*</i>

13.0407	<i>Community and Junior College Education*</i>
13.0499	<i>Education Administration and Supervision, Other*</i>
51.0701	<i>Health System/Health Services Administration*</i>
51.0702	<i>Hospital/Health Facilities Administration*</i>
51.0705	<i>Medical Office Management</i>
51.0706	<i>Medical Records Administration</i>
51.0707	<i>Medical Records Technology/Technician</i>
51.0708	<i>Medical Transcription</i>
51.0799	<i>Health and Medical Administrative Services, Other*</i>
52.0206	<i>Non-Profit and Public Management</i>

738

> 73801	22.0101	<i>Law (LLB, JD)*</i>
	22.0102	<i>Pre-Law Studies</i>
	22.0103	<i>Paralegal/Legal Assistant</i>

73802	N/A
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73804	N/A
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73806	N/A
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73808	N/A
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73899	22.0104	<i>Juridical Science/Legal Specialization (LLM, MCL, JSD/SJD)*</i>
	22.0199	<i>Law and Legal Studies, Other*</i>

742

74202	26.0101	<i>Biology, General*</i>
	26.0202	<i>Biochemistry*</i>
	26.0203	<i>Biophysics*</i>
	26.0301	<i>Botany, General*</i>
	26.0305	<i>Plant Pathology*</i>
	26.0307	<i>Plant Physiology*</i>
	26.0399	<i>Botany, Other</i>
	26.0401	<i>Cell Biology*</i>
	26.0402	<i>Molecular Biology*</i>
	26.0499	<i>Cell and Molecular Biology, Other*</i>
	26.0501	<i>Microbiology/Bacteriology*</i>
	26.0601	<i>Anatomy*</i>

	26.0603	<i>Ecology*</i>
	26.0607	<i>Marine/Aquatic Biology*</i>
	26.0608	<i>Neuroscience*</i>
	26.0609	<i>Nutritional Sciences*</i>
	26.0610	<i>Parasitology</i>
	26.0611	<i>Radiation Biology/Radiobiology*</i>
	26.0612	<i>Toxicology*</i>
	26.0613	<i>Genetics, Plant and Animal*</i>
	26.0614	<i>Biometrics*</i>
	26.0615	<i>Biostatistics*</i>
	26.0616	<i>Biotechnology Research</i>
	26.0617	<i>Evolutionary Biology</i>
	26.0618	<i>Biological Immunology*</i>
	26.0619	<i>Virology</i>
	26.0699	<i>Miscellaneous Biological Specializations, Other*</i>
	26.0701	<i>Zoology, General*</i>
	26.0702	<i>Entomology*</i>
	26.0704	<i>Pathology, Human and Animal*</i>
	26.0705	<i>Pharmacology, Human and Animal*</i>
	26.0706	<i>Physiology, Human and Animal*</i>
	26.0799	<i>Zoology, Other</i>
	26.9999	<i>Biological Sciences/Life Sciences, Other*</i>
74212	40.0501	<i>Chemistry, General*</i>
	40.0502	<i>Analytical Chemistry*</i>
	40.0503	<i>Inorganic Chemistry</i>
	40.0504	<i>Organic Chemistry*</i>
	40.0505	<i>Medicinal/Pharmaceutical Chemistry*</i>
	40.0506	<i>Physical and Theoretical Chemistry*</i>
	40.0507	<i>Polymer Chemistry*</i>
	40.0599	<i>Chemistry, Other*</i>
74222	40.0601	<i>Geology*</i>
	40.0602	<i>Geochemistry*</i>
	40.0603	<i>Geophysics and Seismology*</i>
	40.0604	<i>Paleontology</i>
	40.0699	<i>Geological and Related Sciences, Other*</i>
74232	40.0801	<i>Physics, General*</i>
	40.0802	<i>Chemical and Atomic/Molecular Physics</i>
	40.0804	<i>Elementary Particle Physics</i>
	40.0805	<i>Plasma and High-Temperature Physics</i>
	40.0806	<i>Nuclear Physics</i>
	40.0807	<i>Optics*</i>
	40.0808	<i>Solid State and Low-Temperature Physics</i>

	40.0809	<i>Acoustics</i>
	40.0810	<i>Theoretical and Mathematical Physics</i>
	40.0899	<i>Physics, Other*</i>
74242	40.0201	<i>Astronomy*</i>
	40.0301	<i>Astrophysics*</i>
74252	40.0401	<i>Atmospheric Sciences and Meteorology*</i>
74262	40.0702	<i>Oceanography*</i>
74299	30.0101	<i>Biological and Physical Sciences*</i>
	30.0601	<i>Systems Science and Theory*</i>
	30.1001	<i>Biopsychology</i>
	40.0101	<i>Physical Sciences, General*</i>
	40.0701	<i>Metallurgy</i>
	40.0703	<i>Earth and Planetary Sciences*</i>
	40.0799	<i>Miscellaneous Physical Sciences, Other*</i>
	40.9999	<i>Physical Sciences, Other*</i>
746		
> 74601	27.0101	<i>Mathematics*</i>
74611	27.0501	<i>Mathematical Statistics*</i>
74621	52.0802	<i>Actuarial Science*</i>
74639	27.0301	<i>Applied Mathematics, General*</i>
	27.0302	<i>Operations Research*</i>
	27.0399	<i>Applied Mathematics, Other</i>
	27.9999	<i>Mathematics, Other*</i>
	30.0801	<i>Mathematics and Computer Science</i>
74641	11.0101	<i>Computer and Information Sciences, General*</i>
	11.0201	<i>Computer Programming*</i>
	11.0301	<i>Data Processing Technology/Technician*</i>
	11.0401	<i>Information Sciences and Systems*</i>
	11.0501	<i>Computer Systems Analysis*</i>
	11.0701	<i>Computer Science*</i>
	11.9999	<i>Computer and Information Sciences, Other*</i>

750

> 75002	51.0301	<i>Community Health Liaison*</i>
	51.2201	<i>Public Health, General*</i>
	51.2202	<i>Environmental Health*</i>
	51.2203	<i>Epidemiology*</i>
	51.2204	<i>Health and Medical Biostatistics</i>
	51.2205	<i>Health Physics/Radiologic Health</i>
	51.2206	<i>Occupational Health and Industrial Hygiene</i>
	51.2207	<i>Public Health Education and Promotion*</i>
	51.2299	<i>Public Health, Other*</i>
75006	51.0807	<i>Physician Assistant*</i>
	51.1102	<i>Pre-Medicine Studies</i>
	51.1201	<i>Medicine (MD)*</i>
	51.1401	<i>Medical Clinical Sciences (MS, PhD)*</i>
	51.1901	<i>Osteopathic Medicine (DO)*</i>
> 75008	51.0803	<i>Occupational Therapy Assistant</i>
	51.0806	<i>Physical Therapy Assistant</i>
	51.2301	<i>Art Therapy*</i>
	51.2302	<i>Dance Therapy*</i>
	51.2303	<i>Hypnotherapy</i>
	51.2304	<i>Movement Therapy</i>
	51.2305	<i>Music Therapy*</i>
	51.2306	<i>Occupational Therapy*</i>
	51.2307	<i>Orthotics/Prosthetics</i>
	51.2308	<i>Physical Therapy*</i>
	51.2309	<i>Recreational Therapy</i>
	51.2310	<i>Vocational Rehabilitation Counseling*</i>
	51.2399	<i>Rehabilitation/Therapeutic Services, Other*</i>
> 75012	51.1601	<i>Nursing (RN Training)*</i>
	51.1602	<i>Nursing Administration*</i>
	51.1603	<i>Nursing, Adult Health</i>
	51.1604	<i>Nursing Anesthetist*</i>
	51.1605	<i>Nursing, Family Practice</i>
	51.1606	<i>Nursing, Maternal/Child Health*</i>
	51.1608	<i>Nursing Science*</i>
	51.1609	<i>Nursing, Pediatric</i>
	51.1610	<i>Nursing, Psychiatric/Mental Health*</i>
	51.1611	<i>Nursing, Public Health*</i>
	51.1612	<i>Nursing, Surgical*</i>
	51.1613	<i>Practical Nurse (LPN Training)</i>
	51.1614	<i>Nurse Assistant/Aide</i>

	51.1615	<i>Home Health Aide</i>
	51.1699	<i>Nursing, Other*</i>
> 75017	51.0907	<i>Medical Radiologic Technology/Technician*</i>
> 75019	51.0901	<i>Cardiovascular Technology/Technician</i>
	51.0902	<i>Electrocardiograph Technology/Technician</i>
	51.0903	<i>Electroencephalograph Technology/Technician</i>
	51.0904	<i>Emergency Medical Technology/Technician</i>
	51.0905	<i>Nuclear Medical Technology/Technician</i>
	51.0906	<i>Perfusion Technology/Technician</i>
	51.0908	<i>Respiratory Therapy Technology/Technician</i>
	51.0909	<i>Surgical/Operating Room Technician</i>
	51.0910	<i>Diagnostic Medical Sonography</i>
	51.0999	<i>Health and Medical Diagnostic and Treatment Services, Other*</i>
> 75030	51.0802	<i>Medical Laboratory Assistant</i>
	51.1001	<i>Blood Bank Technology/Technician</i>
	51.1002	<i>Cytotechnologist</i>
	51.1003	<i>Hematology Technology/Technician</i>
	51.1004	<i>Medical Laboratory Technician*</i>
	51.1005	<i>Medical Technology*</i>
	51.1006	<i>Optometric/Ophthalmic Laboratory Technician</i>
	51.1099	<i>Health and Medical Laboratory Technologists/Technicians, Other*</i>
75042	51.0401	<i>Dentistry (DDS, DMD)*</i>
	51.0501	<i>Dental Clinical Sciences/Graduate Dentistry (MS, PhD)*</i>
	51.1101	<i>Pre-Dentistry Studies</i>
> 75046	51.0601	<i>Dental Assistant</i>
	51.0602	<i>Dental Hygienist</i>
	51.0603	<i>Dental Laboratory Technician</i>
	51.0699	<i>Dental Services, Other*</i>
> 75052	51.0805	<i>Pharmacy Technician/Assistant</i>
	51.1103	<i>Pre-Pharmacy Studies</i>
	51.2001	<i>Pharmacy (BPharm, PharmD)*</i>
	51.2002	<i>Pharmacy Administration and Pharmaceuticals*</i>
	51.2003	<i>Medical Pharmacology and Pharmaceutical Sciences*</i>
	51.2099	<i>Pharmacy, Other*</i>
> 75062	51.0804	<i>Ophthalmic Medical Assistant</i>

	51.1701	<i>Optometry (OD)*</i>
	51.1801	<i>Opticianry/Dispensing Optician</i>
	51.1802	<i>Optical Technician/Assistant</i>
	51.1803	<i>Ophthalmic Medical Technologist</i>
	51.1804	<i>Orthoptics</i>
	51.1899	<i>Ophthalmic/Optometric Services, Other</i>
75099	51.0101	<i>Chiropractic (DC, DCM)*</i>
	51.0201	<i>Communication Disorders, General*</i>
	51.0202	<i>Audiology/Hearing Sciences*</i>
	51.0203	<i>Speech-Language Pathology*</i>
	51.0204	<i>Speech-Language Pathology and Audiology*</i>
	51.0205	<i>Sign Language Interpreter</i>
	51.0299	<i>Communication Disorders Sciences and Services, Other*</i>
	51.0703	<i>Health Unit Coordinator/Ward Clerk</i>
	51.0704	<i>Health Unit Manager/Ward Supervisor</i>
	51.0801	<i>Medical Assistant</i>
	51.0899	<i>Health and Medical Assistants, Other</i>
	51.1199	<i>Health and Medical Preparatory Programs, Other*</i>
	51.1301	<i>Medical Anatomy*</i>
	51.1302	<i>Medical Biochemistry*</i>
	51.1303	<i>Medical Biomathematics and Biometrics</i>
	51.1304	<i>Medical Physics/Biophysics</i>
	51.1305	<i>Medical Cell Biology</i>
	51.1306	<i>Medical Genetics</i>
	51.1307	<i>Medical Immunology</i>
	51.1308	<i>Medical Microbiology*</i>
	51.1309	<i>Medical Molecular Biology</i>
	51.1310	<i>Medical Neurobiology</i>
	51.1311	<i>Medical Nutrition</i>
	51.1312	<i>Medical Pathology*</i>
	51.1313	<i>Medical Physiology*</i>
	51.1314	<i>Medical Toxicology</i>
	51.1399	<i>Basic Medical Sciences, Other*</i>
	51.1501	<i>Alcohol/Drug Abuse Counseling*</i>
	51.1502	<i>Psychiatric/Mental Health Services Technician*</i>
	51.1503	<i>Clinical and Medical Social Work</i>
	51.1599	<i>Mental Health Services, Other*</i>
	51.2101	<i>Podiatry (DPM, DP, PodD)*</i>
	51.2601	<i>Health Aide</i>
	51.2701	<i>Acupuncture and Oriental Medicine*</i>
	51.2702	<i>Medical Dietician</i>
	51.2703	<i>Medical Illustrating*</i>
	51.2704	<i>Naturopathic Medicine</i>
	51.2705	<i>Psychoanalysis</i>

	51.9999	<i>Health Professions and Related Sciences, Other*</i>
> 752		
> 75212	01.0401	<i>Agricultural and Food Products Processing Operations and Management</i>
	12.0506	<i>Meatcutter</i>
> 75284	41.0101	<i>Biological Technology/Technician</i>
	41.0301	<i>Chemical Technology/Technician</i>
	41.0399	<i>Physical Science Technology/Technicians, Other</i>
	41.9999	<i>Science Technology/Technicians, Other*</i>
754		
> 75402	15.1102	<i>Surveying*</i>
75412	14.0601	<i>Ceramic Sciences and Engineering*</i>
	14.0701	<i>Chemical Engineering*</i>
	14.3201	<i>Polymer/Plastics Engineering</i>
	15.0607	<i>Plastics Technology/Technician</i>
75416	14.0801	<i>Civil Engineering, General*</i>
	14.0802	<i>Geotechnical Engineering</i>
	14.0804	<i>Transportation and Highway Engineering</i>
	14.0805	<i>Water Resources Engineering</i>
	14.0899	<i>Civil Engineering, Other*</i>
	14.2401	<i>Ocean Engineering*</i>
	15.0201	<i>Civil Engineering/Civil Technology/Technician</i>
	14.1001	<i>Construction/Building Technology/Technician</i>
75422	14.0901	<i>Computer Engineering*</i>
	14.1001	<i>Electrical, Electronics, and Communications Engineering*</i>
	15.0301	<i>Computer Engineering Technology/Technician</i>
	15.0303	<i>Electrical, Electronic, and Communications Engineering Technology/Technician</i>
	15.0399	<i>Electrical and Electronic Engineering-Related Technologies/Technicians</i>
	15.0402	<i>Computer Maintenance Technology/Technician</i>
	15.0403	<i>Electromechanical Technology/Technician</i>
	15.0404	<i>Instrumentation Technology/Technician</i>
	15.0405	<i>Robotics Technology/Technician</i>

	15.0499	<i>Electromechanical Instrumentation and Maintenance Technologies/Technicians</i>
75426	14.1701	<i>Industrial/Manufacturing Engineering*</i>
	14.3001	<i>Engineering/Industrial Management*</i>
	15.0603	<i>Industrial/Manufacturing Technology/Technician*</i>
	15.0699	<i>Industrial Production Technologies/Technicians, Other*</i>
	15.0701	<i>Occupational Safety and Health Technology/Technician*</i>
	15.0702	<i>Quality Control Technology/Technician</i>
	15.0799	<i>Quality Control and Safety Technologies/Technicians, Other</i>
75432	14.2001	<i>Metallurgical Engineering*</i>
	15.0611	<i>Metallurgical Technology/Technician</i>
75436	14.1501	<i>Geological Engineering*</i>
	14.2101	<i>Mining and Mineral Engineering*</i>
	15.0901	<i>Mining Technology/Technician</i>
	15.0999	<i>Mining and Petroleum Technologies/Technicians, Other</i>
75442	14.0201	<i>Aerospace, Aeronautical, and Astronautical Engineering*</i>
	14.1901	<i>Mechanical Engineering*</i>
	14.2201	<i>Naval Architecture and Marine Engineering*</i>
	15.0801	<i>Aeronautical and Aerospace Engineering Technology/Technician*</i>
	15.0803	<i>Automotive Engineering Technology/Technician*</i>
	15.0805	<i>Mechanical Engineering/Mechanical Technology/Technician*</i>
	15.0899	<i>Mechanical Engineering-Related Technologies/Technicians, Other*</i>
	15.1103	<i>Hydraulic Technology/Technician</i>
75453	14.0301	<i>Agricultural Engineering*</i>
75463	N/A	
75499	14.0101	<i>Engineering, General*</i>
	14.0501	<i>Bioengineering and Biomedical Engineering*</i>
	14.1101	<i>Engineering Mechanics*</i>
	14.1201	<i>Engineering Physics*</i>
	14.1301	<i>Engineering Science*</i>
	14.1401	<i>Environmental/Environmental Health Engineering*</i>
	14.1601	<i>Geophysical Engineering</i>
	14.1801	<i>Materials Engineering*</i>

14.2301	<i>Nuclear Engineering*</i>
14.2501	<i>Petroleum Engineering*</i>
14.2701	<i>Systems Engineering*</i>
14.2801	<i>Textile Sciences and Engineering*</i>
14.3101	<i>Materials Science*</i>
14.9999	<i>Engineering, Other*</i>
15.0304	<i>Laser and Optical Technology/Technician</i>
15.0401	<i>Biomedical Engineering-Related Technology/Technician</i>
15.0501	<i>Heating, Air Conditioning, and Refrigeration Technology/Technician</i>
15.0503	<i>Energy Management and Systems Technology/Technician</i>
15.0505	<i>Solar Technology/Technician</i>
15.0506	<i>Water Quality and Wastewater Treatment Technology/Technician</i>
15.0507	<i>Environmental and Pollution Control Technology/Technician</i>
15.0599	<i>Environmental Control Technologies/Technicians, Other*</i>
15.0903	<i>Petroleum Technology/Technician</i>
15.1101	<i>Engineering-Related Technology/Technician, General</i>
15.9999	<i>Engineering-Related Technologies/Technicians, Other*</i>
41.0204	<i>Industrial Radiologic Technology/Technician</i>
41.0205	<i>Nuclear/Nuclear Power Technology/Technician</i>
41.0299	<i>Nuclear and Industrial Radiologic Technologies/Technicians, Other</i>

758

> 75801	04.0201	<i>Architecture*</i>
75802	04.0501	<i>Interior Architecture*</i>
	14.0401	<i>Architectural Engineering*</i>
	14.0803	<i>Structural Engineering</i>
	15.0101	<i>Architectural Engineering Technology/Technician</i>
75812	04.0601	<i>Landscape Architecture*</i>
75822	04.0301	<i>City/Urban, Community, and Regional Planning*</i>
	04.0401	<i>Architectural Environmental Design*</i>
	04.0701	<i>Architectural Urban Design and Planning*</i>
> 75899	04.9999	<i>Architecture and Related Programs, Other*</i>
	30.1201	<i>Historic Preservation, Conservation, and Architectural</i>

*History**

762

- > 76201 01.0101 *Agricultural Business and Management, General**
 01.0301 *Agricultural Production Workers and Managers, General*
 02.0101 *Agriculture/Agricultural Sciences, General**
- 76203 01.0302 *Agricultural Animal Husbandry and Production Management*
 01.0303 *Aquaculture Operations and Production Management*
 01.0399 *Agricultural Production Workers and Managers, Other*
 02.0201 *Animal Sciences, General**
 02.0202 *Agricultural Animal Breeding and Genetics*
 02.0203 *Agricultural Animal Health*
 02.0204 *Agricultural Animal Nutrition*
 02.0205 *Agricultural Animal Physiology*
 02.0206 *Dairy Science**
 02.0209 *Poultry Science**
 02.0299 *Animal Sciences, Other**
- 76206 01.0601 *Horticulture Services Operations and Management, General**
 01.0603 *Ornamental Horticulture Operations and Management**
 01.0604 *Greenhouse Operations and Management*
 01.0605 *Landscaping Operations and Management*
 01.0606 *Nursery Operations and Management*
 01.0607 *Turf Management*
 01.0699 *Horticulture Services Operations and Management, Other*
 02.0403 *Horticulture Science**
- 76208 01.0304 *Crop Production Operations and Management*
 02.0401 *Plant Sciences, General**
 02.0402 *Agronomy and Crop Science**
 02.0405 *Plant Breeding and Genetics*
 02.0406 *Agricultural Plant Pathology*
 02.0407 *Agricultural Plant Physiology*
 02.0408 *Plant Protection (Pest Management)**
 02.0409 *Range Science and Management**
 02.0499 *Plant Sciences, Other**
- 76212 01.0102 *Agricultural Business/Agribusiness Operations**
 01.0103 *Agricultural Economics**

	01.0104	<i>Farm and Ranch Management</i>
	01.0199	<i>Agricultural Business and Management, Other</i>
76222	02.0301	<i>Food Sciences and Technology*</i>
76226	02.0501	<i>Soil Sciences*</i>
76232	51.0808	<i>Veterinarian Assistant/Animal Health Technician</i>
	51.1104	<i>Pre-Veterinary Studies</i>
	51.2401	<i>Veterinary Medicine (DVM)*</i>
	51.2501	<i>Veterinary Clinical Sciences (MS, PhD)*</i>
76249	01.0201	<i>Agricultural Mechanization, General</i>
	01.0204	<i>Agricultural Power Machinery Operator</i>
	01.0299	<i>Agricultural Mechanization, Other</i>
	01.0501	<i>Agricultural Supplies Retailing and Wholesaling</i>
	01.0505	<i>Animal Trainer</i>
	01.0507	<i>Equestrian/Equine Studies, Horse Management and Training</i>
	01.0599	<i>Agricultural Supplies and Related Services, Other</i>
	01.0701	<i>International Agriculture</i>
	01.9999	<i>Agricultural Business and Production, Other*</i>
	02.0102	<i>Agricultural Extension</i>
	02.9999	<i>Agriculture/Agricultural Sciences, Other*</i>
76262	03.0401	<i>Forest Harvesting and Production Technology/Technician*</i>
	03.0404	<i>Forest Products Technology/Technician</i>
	03.0405	<i>Logging/Timber Harvesting</i>
	03.0499	<i>Forest Production and Processing, Other</i>
	03.0501	<i>Forestry, General*</i>
	03.0502	<i>Forestry Sciences*</i>
	03.0506	<i>Forest Management*</i>
	03.0509	<i>Wood Sciences and Pulp/Paper Technology*</i>
	03.0599	<i>Forestry and Related Sciences, Other*</i>
	03.0601	<i>Wildlife and Wildlands Management*</i>
76272	03.0301	<i>Fishing and Fisheries Sciences and Management*</i>
	49.0303	<i>Fishing Technology/Commercial Fishing</i>
766		
> 76601	19.0101	<i>Home Economics, General*</i>

76612	19.0401	<i>Family Resource Management Studies*</i>
	19.0402	<i>Consumer Economics and Science*</i>
	19.0499	<i>Family/Consumer Resource Management, Other</i>
	19.0501	<i>Foods and Nutrition Studies, General*</i>
	19.0502	<i>Foods and Nutrition Science*</i>
	19.0503	<i>Dietetics/Human Nutritional Services*</i>
	19.0505	<i>Food Systems Administration</i>
	19.0599	<i>Foods and Nutrition Studies, Other*</i>
	20.0401	<i>Institutional Food Workers and Administrators, General</i>
	20.0404	<i>Dietician Assistant</i>
	20.0409	<i>Institutional Food Services Administrator</i>
	20.0499	<i>Institutional Food Workers and Administrators, Other</i>
> 76622	19.0701	<i>Individual and Family Development Studies, General*</i>
	19.0706	<i>Child Growth, Care, and Development Studies*</i>
	19.0799	<i>Individual and Family Development Studies, Other*</i>
	20.0201	<i>Child Care and Guidance Workers and Managers, General*</i>
	20.0202	<i>Child Care Provider/Assistant</i>
	20.0203	<i>Child Care Services Manager</i>
	20.0299	<i>Child Care and Guidance Workers and Managers, Other</i>
76632	19.0601	<i>Housing Studies, General*</i>
	19.0603	<i>Interior Environments</i>
	19.0699	<i>Housing Studies, Other</i>
	19.0901	<i>Clothing/Apparel and Textile Studies*</i>
	20.0501	<i>Home Furnishings and Equipment Installers and Consultants, General</i>
	20.0502	<i>Window Treatment Maker and Installer</i>
	20.0599	<i>Home Furnishings and Equipment Installers and Consultants, Other</i>
76699	19.0201	<i>Business Home Economics</i>
	19.0202	<i>Home Economics Communications</i>
	19.9999	<i>Home Economics, Other*</i>
	20.0601	<i>Custodial, Housekeeping, and Home Services Workers and Managers, General</i>
	20.0602	<i>Elder Care Provider/Companion</i>
	20.0606	<i>Homemaker's Aide</i>
	20.0699	<i>Custodial, Housekeeping, and Home Services Workers and Managers, Other</i>
	20.9999	<i>Vocational Home Economics, Other</i>

> 770

- > 77002 49.0102 *Aircraft Pilot and Navigator (Commercial)*
 49.0106 *Flight Attendant*
 49.0107 *Aircraft Pilot (Private)*
- > 77029 49.0101 *Aviation and Airway Science*
 49.0104 *Aviation Management*
 49.0105 *Air Traffic Controller*
 49.0199 *Air Transportation Workers, Other*
 49.0304 *Diver (Professional)*
 49.9999 *Transportation and Material Moving Workers, Other*

> 778

- > 77822 08.0901 *Hospitality and Recreation Marketing Operations,*
 General
 08.0902 *Hotel/Motel Services Marketing Operations*
 08.0903 *Recreation Products/Services Marketing Operations*
 08.0906 *Food Sales Operations*
 08.0999 *Hospitality and Recreation Marketing Operations,*
 Other
 12.0504 *Food and Beverage/Restaurant Operations Manager*
 20.0604 *Custodian/Caretaker*
 20.0605 *Executive Housekeeper*
- > 77862 08.0101 *Apparel and Accessories Marketing Operations, General*
 08.0102 *Fashion Merchandising*
 08.0103 *Fashion Modeling*
 08.0199 *Apparel and Accessories Marketing Operations, Other*
 08.0204 *Business Services Marketing Operations*
 08.0205 *Personal Services Marketing Operations*
 08.0299 *Business and Personal Services Marketing Operations,*
 Other
 08.0401 *Financial Services Marketing Operations*
 08.0503 *Floristry Marketing Operations*
 08.0601 *Food Products Retailing and Wholesaling Operations*
 08.0809 *Home Products Marketing Operations*
 08.0810 *Office Products Marketing Operations*
 08.0899 *Home and Office Products Marketing Operations, Other*
 08.1001 *Insurance Marketing Operations*
 08.1203 *Vehicle Parts and Accessories Marketing Operations*
 08.1208 *Vehicle Marketing Operations*
 08.1209 *Petroleum Products Retailing Operations*

	08.1299	<i>Vehicle and Petroleum Products Marketing Operations, Other</i>
	08.1301	<i>Health Products and Services Marketing Operations</i>
	08.9999	<i>Marketing Operations/Marketing and Distribution, Other</i>
> 77872	08.1104	<i>Tourism Promotion Operations</i>
	08.1105	<i>Travel Services Marketing Operations</i>
	08.1199	<i>Tourism and Travel Services Marketing Operations, Other</i>
784		
78402	09.0401	<i>Journalism*</i>
	09.0403	<i>Mass Communications*</i>
	09.0499	<i>Journalism and Mass Communications, Other</i>
78404	09.0402	<i>Broadcast Journalism*</i>
	09.0701	<i>Radio and Television Broadcasting*</i>
	10.0104	<i>Radio and Television Broadcasting Technology/Technician*</i>
78407	09.0501	<i>Public Relations and Organizational Communications*</i>
78409	09.0101	<i>Communications, General*</i>
	09.9999	<i>Communications, Other*</i>
	10.0101	<i>Educational/Instructional Media Technology/Technician</i>
	10.0199	<i>Communications Technologies/Technicians, Other</i>
78422	25.0101	<i>Library Science/Librarianship*</i>
	25.0301	<i>Library Assistant</i>
	25.9999	<i>Library Science, Other*</i>
> 78425	30.1401	<i>Museology/Museum Studies*</i>
789		
> 78912	43.0102	<i>Corrections/Correctional Administration*</i>
	43.0103	<i>Criminal Justice/Law Enforcement Administration*</i>
	43.0104	<i>Criminal Justice Studies*</i>
	43.0106	<i>Forensic Technology/Technician*</i>
	43.0107	<i>Law Enforcement/Police Science*</i>
	43.0109	<i>Security and Loss Prevention Services</i>
	43.0199	<i>Criminal Justice and Corrections, Other*</i>

78913	45.0401	<i>Criminology*</i>
> 78915	43.0201	<i>Fire Protection and Safety Technology/Technician</i>
	43.0202	<i>Fire Services Administration</i>
	43.0203	<i>Fire Science/Firefighting</i>
	43.0299	<i>Fire Protection, Other</i>
78919	43.9999	<i>Protective Services, Other</i>
78932	19.0301	<i>Family and Community Studies*</i>
	19.0703	<i>Family and Marriage Counseling*</i>
	19.0704	<i>Family Life and Relations Studies*</i>
	19.0705	<i>Gerontological Services*</i>
	44.0201	<i>Community Organization, Resources, and Services*</i>
	44.0701	<i>Social Work*</i>
78942	N/A	
78952	03.0101	<i>Natural Resources Conservation, General*</i>
	03.0102	<i>Environmental Science/Studies*</i>
	03.0201	<i>Natural Resources Management and Policy</i>
	03.0203	<i>Natural Resources Law Enforcement and Protective Services</i>
	03.0299	<i>Natural Resources Management and Protective Services, Other</i>
	03.9999	<i>Conservation and Renewable Natural Resources, Other*</i>
78962	31.0101	<i>Parks, Recreation, and Leisure Studies*</i>
	31.0301	<i>Parks, Recreation, and Leisure Facilities Management*</i>
	31.0501	<i>Health and Physical Education, General*</i>
	31.0502	<i>Adapted Physical Education/Therapeutic Recreation</i>
	31.0503	<i>Athletic Training and Sports Medicine*</i>
	31.0504	<i>Sport and Fitness Administration/Management*</i>
	31.0505	<i>Exercise Sciences/Physiology and Movement Studies*</i>
	31.0506	<i>Socio-Psychological Sports Studies</i>
	31.0599	<i>Health and Physical Education/Fitness, Other*</i>
	31.9999	<i>Parks, Recreation, Leisure, and Fitness Studies, Other*</i>
78999	30.1101	<i>Gerontology*</i>
	30.1501	<i>Science, Technology, and Society</i>
	30.9999	<i>Multi-/Interdisciplinary Studies, Other*</i>

9. Education Not Definable by Level

ISCED	IPEDS	
9	N/A	
ISCED	CIP	
901		
90100	32.0101	<i>Basic Skills, General</i>
914		
91416	N/A	
91499	N/A	
918		
91810	36.0110	<i>Art</i>
91812	36.0102	<i>Handicrafts and Model-Making</i>
91822	36.0115	<i>Music</i>
91832	36.0117	<i>Theatre</i>
91899	36.0114	<i>Dancing</i>
922		
92215	N/A	
92221	N/A	
92251	N/A	
92261	N/A	

92299	36.0116 36.0118	<i>Reading</i> <i>Writing</i>
926		
92600	N/A	
930		
93012	N/A	
93022	33.0101	<i>Citizenship Activities, General</i>
93032	33.0103	<i>Community Awareness</i>
93052	37.0101 37.0102 37.0103 37.0104 37.0199	<i>Self-Awareness and Personal Assessment</i> <i>Stress Management and Coping Skills</i> <i>Personal Decision-Making Skills</i> <i>Self-Esteem and Values Clarification</i> <i>Personal Awareness and Self-Improvement, Other</i>
93062	36.0109	<i>Travel and Exploration</i>
93099	33.0199	<i>Citizenship Activities, Other</i>
934		
93404	N/A	
93408	N/A	
93438	N/A	
93439	32.0105 32.0107 33.0104 35.0103	<i>Job Seeking/Changing Skills</i> <i>Career Exploration/Awareness Skills</i> <i>Community Involvement</i> <i>Business and Social Skills</i>
938		
93800	33.0102	<i>American Citizenship Education</i>

942		
94202	N/A	
94222	N/A	
94232	N/A	
94242	N/A	
94299	36.0106	<i>Nature Appreciation</i>
946		
94600	32.0104 32.0113	<i>Computational Skills</i> <i>Computer Games and Programming Skills</i>
950		
95018	N/A	
95099	34.0102 34.0103 34.0104 34.0199	<i>Birth and Parenting Knowledge and Skills</i> <i>Personal Health Improvement and Maintenance</i> <i>Addiction Prevention and Treatment</i> <i>Health-Related Knowledge and Skills, Other</i>
952		
95200	36.0105	<i>Home Maintenance and Improvement</i>
954		
95400	N/A	
958		
95810	N/A	
95822	N/A	

962

96202 36.0107 *Pet Ownership and Care*

96262 N/A

96272 N/A

966

96604 20.0103 *Clothing and Textiles*

96612 20.0104 *Consumer Education*
 20.0108 *Food and Nutrition*

96622 20.0102 *Child Development, Care, and Guidance*
 20.0107 *Family Living and Parenthood*

96699 20.0101 *Comprehensive Consumer and Homemaking Education*
 20.0105 *Exploratory Homemaking*
 20.0106 *Family/Individual Health*
 20.0109 *Home Management*
 20.0110 *Housing, Home Furnishings, and Equipment*
 20.0199 *Consumer and Homemaking Education, Other*
 36.0112 *Cooking and Other Domestic Skills*

970

97000 N/A

978

97800 N/A

984

98400 N/A

989

98962

36.0108

Sports and Exercise

98999

32.0199

Basic Skills, Other

35.0101

Interpersonal and Social Skills, General

35.0102

Interpersonal Relationships Skills

35.0199

Interpersonal and Social Skills, Other

36.0101

Leisure and Recreational Activities, General

36.0103

Board, Card, and Role-Playing Games

36.0111

Collecting

36.0199

Leisure and Recreational Activities, Other

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